AMERICAN RAILROAD JOURNAL,

AND GENERAL ADVERTISER

FOR RAILROADS, CANALS, STEAMBOATS, MACHINERY.

AND MINES.



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THE AMERICAN RAILROAD JOURNAL is the only periodical having a general circulation throughout the Union, in which all matters connected with public works can be brought to the notice of all persons in any way interested in these uudertakings. Hence it offers peculiar advantages for advertising times of departure, rates of fare and freight, improvements in machinery, materials, as iron, timber, stone, cement, etc. It is also the best medium for advertising contracts, and placing the merits of new undertakings fairly before the public.

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KITE'S Patent Safety Beam. (See Adv.)

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R. CASEY, CIVIL ENGINEER, NO. 23 Chambers street, New York, will make surveys estimates of cost and reports for railways, canals, roads, docks, wharves, dams and bridges
of every description, with plans and specifications. He will also act as agent for the sale or purchase of machinery, and of patent rights for improvements relating to public works.

KITE'S PATENT SAFETY BEAM.

Messas. Editors.— As your Journal is devoted to the benefit of the public in general I feel desirous to communicate to you for publication the following circumstance of no inconsiderable importance, which oc-curred some few days since on the Philadel-phia, Wilmington and Baltimore railroad.

On the passage of the evening train of cars from Philadelphia to this city, an axle of our large 8 wheeled enger car was broken, but from the particular plan of the construction, the accident was entirely unknown to any of the passengers, or, in fact, to the conductor himself, until the train, (as was supposed from some

the same kind of acci-dent would unavoidably have much injured it, per-haps thrown the whole train off the track, and seriously injured, if not killed many of the passengers.

Wilmington, Del., Sept. 28, 1840.

The undersigned takes pleasure in attesting of the value of Mr. Joseph S. Kite's invention of the Safety Beam Axle and Hub for railroad cars. They Safety Beam Axle and Hub for railroad cars. They have for some time been applied to passenger cars on this road, and experience has tested that they fully accomplish the object intended. Several instances of the fracture of axles have occurred, and in such the cars have uniformly run the whole distance with entire safety. Had not this invention been used, serious accidents must have occurred.

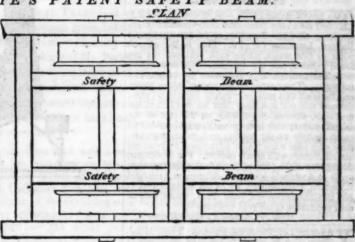
In short, we consider Mr. Kite's invention as completely successful in securing the safety of property and lives in railroad travelling, and should be used on all railroads in the country.

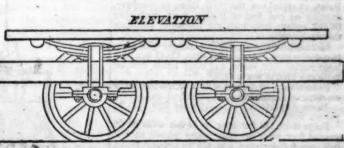
JOHN FRAZER, Agent,

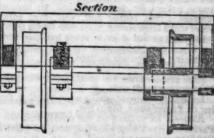
GEORGE CRAIG, Superintendant,

W. L. ASHMEAD, Agent.

A model of the above improvement is to be seen at the New Jersey railroad and transportation office, No. 1 Hanover st., N. York.







To IRON MANUFACTURERS. THE SUBscribers, as Agents of Mr. George Crane, of
Wales, having obtained a patent in the United
States for his process of smelting Iron Ore with Anthracite coal, and holding an assignment of the patent obtained by the late Rev. F. W. Geissenhainer,
are prepared to grant licenses for the manufacture
of Iron according to Mr. Crane's principle.

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WELDED WROUGHT IRON TUBES

linches to \(\frac{1}{2}\) in calibre and \(\frac{1}{2}\) to 12 feet of sustaining pressure from 400 to 250 unare inch, with Stop Cocks, \(\frac{1}{2}\), to Ixtures to suit, fitting together, with unitable for STEAM, WATER, GAS, an MOTIVE and other STEAM BOILER F



Manufactured and for sale by MORRIS, TASKER & MORRIS. archouse S. E. Corner of Third & Walnut Street PHILADELPHIA.

TO IRON MASTERS.—FOR SALE.—MILL SITES in the immediate neighborhood of Bituminous Coal and Iron Ore, of the first quality, at Ralston, Lyoming Co., Pa. This is the nearest point to tide water where such coal and ore are found together, and the communication is complete with Philadelphia and Paltimore by capacity and with Philadelphia and Baltimore by canals and railways. The interest on the cost of water power and lot is all that will be required for many years; the coal will not cost more than \$1 to \$1 25 at the mill sites, without any trouble on the part of the manufacturer; rich iron ore may be laid down still more chearly at the works, and taken together. manufacturer; rich iron ore may be laid down still more cheaply at the works; and, taken together, these sites offer remarkable advantages to practical manufacturers with small capital. For pamphlets, descriptive of the property, and further information, apply to Archibald McIntyre, Albany, to Archibald Robertson, Philadelphia, or to the undersigned, at No. 23 Chambers street, New York, where may be seen specimens of the coal and ore.

W. R. CASEY, Civil Engager.

W. R. CASEY, Civil Engineer, W. R. CASEY, Civil Engineer,

VALUABLE PROPERTY ON THE MILL

Dam For Sale. A lot of land on Gravelly
Point, so called, on the Mill Dam, in Roxbury,
fronting on and east of Parker street, containing
68,497 square feet, with the following buildings
thereon standing.

Main brick building, 120 feet long, by 46 ft wide,
two stories high. A machine shop, 47x43 feet, with
large engine, face, screw, and other lathes, suitable
to do any kind of work.

Pattern shop, 35x32 feet, with lathes, work benches, &c.

es, &c. Work shop, 86x35 feet, on the same floor with the

pattern shop. Forge shop, 118 feet long by 44 feet wide on the ground floor, with two large water wheels, each 16 feet long, 9 ft diameter, with all the gearing, shafts,

drums, pulleys, &c., large and small trip hammers, furnaces, forges, rolling mill, with large balance wheel and a large blowing apparatus for the foundry.

Foundry, at end of main brick building, 60x451 feet two stories high, with a shed part 451x20 feet, containing a large air furnace, cupola, crane and

-a range of buildings for storage, etc., Store house-

Store house—a range of buildings for storage, etc., 200 feet long by 20 wide.

Locomotive shop, adjoining main building, fronting on Parker street, 54x25 feet.

Also—A lot of land on the canal, west side of Parker st, containing 6000 feet, with the following buildings thereon standing:

Boiler house 50 feet long by 30 feet wide, two storages

Blacksmith shop, 49 feet long by 20 feet wide. For terms, apply to HENRY ANDREWS, 48 State st., or to CURTIS, LEAVENS & CO., 106 State st., Boston, or to A. & G. RALSTON & Co.,

RAILROAD IRON AND LOCOMOTIVE
Tyres imported to order and constantly on hand
A. & G. RALSTON

4 South Front St., Philadelphia Mar. 20tf THE NEWCASTLE MANUFACTURING
Company continue to furnish at the Works, situated in the town of Newcastle, Del., Locomotive and other steam engines, Jack screws, Wrought iron work and Brass and Iron castings, of all kinds connected with Steamboats, Railroads, etc.; Mill Gearing of every description; Cast wheels (chilled) of any pattern and size, with Axles fitted, also with wrought tires, Springs, Boxes and bolts for Cars; Driving and other wheels for Locomotives.

The works being on an extensive scale, all orders

W. Mc. C. CUSHMAN, Civil Engineer, Albany, N. Y. THE NEWCASTLE MANUFACTURING

The works being on an extensive scale, all orders will be executed with promptness and despatch. Communications addressed to Mr. William H. Dobbs, Superintendent, will meet with immediate attention.

ANDREW C. GRAY, ja45

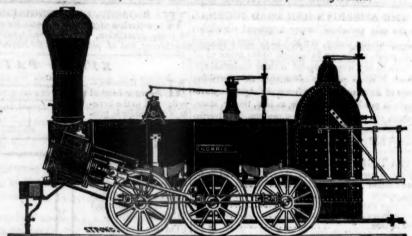
President of the Newcastle Manuf. Co.

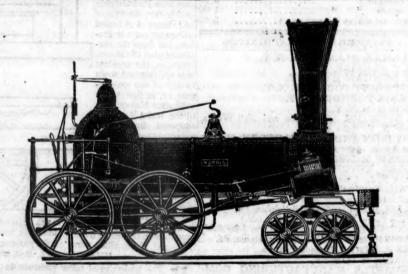
CUSHMAN'S COMPOUND IRON RAILS
etc. The Subscriber having made importat
improvements in the construction of rails, mode n
guarding against accidents from insecure joints, etc.
—respectfully offers to dispose of Company, State
Rights, etc., under the privileges of letters patent to
Railroad Componies, Iron Founders, and others interested in the works to which the same relate. Companies reconstructing their tracks now have a re-

Albany, N. Y. Mr. C. also announces that Railroads, and other works pertaining to the profession, may be constructed under his advice or personal supervision. Applications must be post paid.

NORRIS' LOCOMOTIVE WORKS

BUSH HILL, PHILADELPHIA, Pennsylvania.





MANUFACTURE their Patent 6 Wheel Combined and 8 Wheel Locomotives of the following descriptions, viz:

Class	1,	15 inches	3]	Diameter	of	Cylinder,	X	20	inches	Stroke
- 66	-2,	14	66	"	2	"		24		66
"	3,	141	25			u	X	20		10.6
66.	4.	121	**	- 44				20		"
- "	5,	111	66			6		20		"
u		101	66	**		4 12320	X	18	1 H	"

ith Wheels of any dimensions, with their Patent Arrangement for Variable Expansion. Castings of all kinds made to order: and they call attention to their Chilled Wheels, for the Trucks of Locomotives. Tenders and Cars.

NORRIS, BROTHERS.

fr gi pl sh to

pe to ou the ing cu is Th

OSWEGO AND SYRACUSE RAILROAD.

half the interest in the extension and success of railroads in this State, that they do an attentive friend of the cause, for the following notice of a work which, when completed, will contribute so largely to the success of the central city of the State.

the newspaper press of the country for the sections. Possibly the Railroad Journal some satisfaction, however, in the reflection that it is esteemed by many of the ablest and best conducted papers of the country, worth at least as much as an equal number ments.

past.

"We hope," says a writer in the Onon-

pleted in a very brief period. When that which could not be brought to unite. The labourers are employed in the necessary shall be done, and a railway open from this witness then stated several instances in earthworks, laying the tubes, rails, &c., and to Oswego, it will form the most direct, ex- which he himself had experienced the evil in some parts of the line the works have aspeditious and comfortable route from Boston results arising from rivalry and jealousy, as sumed an important and forward appearance. to Chicago. We say from Boston, because well as inherent obstacles to which through The telegraph is completed for several miles; ing its energies in another direction.

vid P. Brewster, Luther Wright, Sylvester accommodate him on the lines in question,

quired to be paid at the time of subscribing. whereas it now cost from 28s. to 32s.

will ensue."

following report of the evidence given before of square inches of politics and advertise- the committee will be of interest to many of our readers. We know nothing of Mr. Pease, omitted—to send their's in return, when ours ident, however, that his opinions are considhas been sent regularly to them for months ered worth having, or he would not have been brought before the committee.

travelled to Oswego will readily perceive firm belief that, if it were carried into effect, pany, or, as a coal owner, he should be over-that the face of the country is very level it would work an entire revolution in the thrown." and uniform, and that a railroad may be whole coal trade throughout England, both

If the editors of the Syracuse papers took George F. Falley, of Fulton; Philip Hart, from Durham to Gloucester for ten or eleven Jr., of Granby; Otis Bigelow, of Baldwins-days, when they should have gone in one ville, and Ashbel Kellogg, John Wilkinson, day. He believed that the aggregate traffic in political matters, the Railroad Journal B. Davis Noxon, Thomas McCarthy and in coal would give the company 5 per cent. would not have been dependent upon a stray James R. Lawrence, of this town. We unnumber of the "Standard," and that sent by derstand that they will meet here to-day, for whole line. He should be glad to sell his the purpose of making preliminary arrange- coke at 6s. per ton at the pit's mouth, and ments to opening the books of subscription. transmitting it at the above mentioned rate "The capital stock is divided into shares at a mileage, taken as the crow flies, he of \$50 each, and one dollar per share is re-We desire to make the Journal useful to the cause; but to do so we must rely upon the cause; but to do so we must rely upon Albany and could deliver it Albany, and as particularly interesting to at King's Cross, paying the city dues, and our town. It will bring in a large new defraying the expense of carriage within a details of what is passing in their respective trade. It will help to make us more cen. circle of six miles, for 1l. 4s. 71d. per ton. tral by the greater facility that it will afford The formation of the railway would save an may not be as useful to the political news. for the northern counties to reach this point. enormous amount of coal which was now depapers of the day as they are to it—hence it Let it be taken up and constructed with the stroyed at the pit's mouth, that quantity so may not be worth an exchange. There is energy with which such works are prosecuted wasted in the year 1833-34 being 1,500,000 in Massachusetts, and like favorable results tons. Small coal might, if this line passed, be carried to London, and sold for 8d. or 9d. per cwt. He had calculated the amount of RAILWAYS AND THE COAL TRADE.—The coal consumed per head per annum by the populations of York, Durham, and Northumberland, and found that it was from 11 to 2 tons and upwards, including men, women, and children; whilst in London, with all the We shall not hereafter solicit an ex- and therefore leave our readers to draw their demand of steamers, factories, mills, and change with those who have declined—or own conclusions upon his opinions. It is ev- manufactories, there was only about one ton per head per annum, one third of the whole amount being required for manufactories, &c. He had examined gredients on the London and York line, and had found them favour-LONDON AND YORK RAILWAY AND COAL able to the passage of coal. He was so far daga Standard, of June 4th, "soon to see TRADE.—Amongst the witnesses examined favourable to the line, that, if the proprietors the company which was revived and extend-before the committee, in favour of the pro-guaranteed to fix their maximum rate for the ed by the last legislature to construct this jected London and Yorkshire line, was Mr. carriage of coal at \$\frac{1}{4}\$d. per ton per mile, he road, organized, and in the prosecution of Pease, deputy-chairman of the Stockton and would engage with other parties, to pay the the important enterprize for which the char-ter was granted. In looking over the vari-dence was as follows:—"He could raise he would agree to give them from 250,000 to ous proposed routes for railroads, we see 2,000 tons of coal per diem, and make about 300,000l. a year, for the use of their line. none in this State which, in importance of 2,000 tons of coke in the week; but little of The Stockton and Darlington Railway conbusiness, and in certainty of income, equal either was consumed in the neighbourhood, veyed about 2,000,000 tons of coal annually, this route. It is to connect by a railroad of the greater portion being sent southwards, and there were no practical difficulties found 35 miles the great and increasing business and thence to all parts of the world, the coke in that traffic. He had considered the vaof lake Ontario with the central line of rail- proceeding to a greater distance south, as it rious lines before the committee, solely with way at this place. It is no common-place was more adapted to the use of locomotives. a view to the want of a railway running remark to say that the route is most favorable for construction. Every one who has project with great attention, and it was his cessary to have in the hands of a single com-

made with the most moderate inclinations. as to the manner of the conveyance and the
"A railway is proposed in Canada from cost of the article itself. He believed that
way.—The works on this line are proceeding Hamilton to Windsor, opposite Detroit, and the charge of ad. a ton per mile would be am- with great activity, and cause much attenfrom the earnest tone of feeling in that re. ply remunerative, except in the case of very tion among persons who take an interest in gion there is little doubt but it will be com- short distances, and of separate managements this principle of propulsion. A number of our city of New York seems to overlook traffic was exposed by separate companies, as and, at the spot at Annerley, where it will this line of communication, and to be turn- each thought that they were entitled to fix the cross the South-Eastern line by an incline its energies in another direction.

The capital of the Oswego and Syra
local charge of conveyance on their own line. and viaduct, a large extent of piles have been driven for the foundations. Near the Dartis believed to be ample to make the road. The commissioners are Alvin Bronson, Da-there was, he believed, every disposition to mous boilers, from the works of Messrs. tons, covered with an elegant iron roof, the elsewhere, and that place becomes home chimney of which will be 120 feet high, and which treats us best, and best provides us ing feature in the share market is, the rise in is of very unique design. The directors, in with the comforts and luxuries of existence. price of the Great North of England shares; these operations, have shown a degree of It is also more natural that the land should they having reached 255, occasioned, doubt-activity not always witnessed in large under-only be provided with a sufficient number of less, by the conclusion of the contract for give effect to the opportunities placed within abundant population are better employed in their reach, for testing, to its full extent, the hordes, either for the the sake of commerce Nature had placed at the command of man. one class of people also calls together other The length of the line, its gradients, and its classes, which are dependant upon the busitrial of the pneumatic principle, as it pro- are completed, there can be little doubt but tific world, and the various parties interested.

INCREASE AND EXTENSION OF RAILWAYS.

We copy from the Mining Journal the following remarks on the extension of, and the changes which are likely to result from, the British Empire, it is to be expected that thinking, that, however beneficial amalgarailways. We entirely concur with the ed- our manufactures will flourish, so as to ex- mation may have been with lines whose poitor in his views in relation to the safety of ceed those of every other nation; that we sitions rendered such arrangement absolute-such investments, when judiciously made; shall grow into a healthy mart, and bid comand also with those in relation to the equal- petition defiance; and that our fields will ity in working, in this transaction, connectizing the value of the agricultural products that an equipoise must take place in the valof the country-and the penalty for poverty ! ue of vegetation produced in the immediate lie, as well as the interest of the sharehold-We desire, however, to be understood as vicinity of the metropolis and the larger ers, in the hands of a few individuals, there holding fully to the belief, that the process of towns, and that of the western margin of is much danger, and we can only hope, that levelling is upward. Railroads tend to ele. Ireland. With respect to the safety and those parties in whose hands this gigantic levelling is upward. Railroads tend to ele-vate, to extend and increase knowledge as effect, it is clear that the security is much lic advantage. The railway share market well as business; and in our country espe- better than that which has been usually the has remained exceedingly steady during the cially, they will unite us more closely as a outlet of hoarded bullion, for it is the next week, the leading shares obtaining advanced people, and bind us together as a common thing to the green acres themselves, and if brotherhood, unless those demons, indolence at first the per centage be small, it is only vanced 9l. per share since our last; Great and ambition, which produce a thirst for office reasonable to suppose it will gradually in- Westerns 131.; and York and North Midpublic station—power, and a desire to feed at the "public crib," instead of enjoying a glorious independence, earned by honest industry—sap the foundations of the republic on most of the railways neither consult the

is a question of considerable importance to outside to the temperature of an atmosphere the future welfare of the country. It is frequently asked what will be the end of all municating rheumatism, and, perhaps, death, this? It is clear that the whole order of to the unfortunate being who has not money ized, and the sooner we are prepared for the inside of these carriages were lined with the shade lower. Towards the end of the week, lar that, while we are in this position, we manner the London vehicles are fitted for have been secured in several of the newest are not suffering more inconvenience than rich and poor, and the great, the immense, we now experience. All those not directly proffits wrung from the sorrowing humbler engaged in land or agricultural pursuits, classes, is it too much to ask these hard-neut, of necessity, remove to the great terhearted directors—who can only be assimmini of the empire; and, however much this ulated to their own engines in feelingmay militate against our good old notions of whether they can look upon the sufferings been done at a premium. The Dublin and English society, stern necessity commands of their poor fellow-creatures for the saving Kilkenny, and the Cork and Bandon railit, and the village must be reduced to the of a few shillings to each carriage, and after way companies have passed the ordeal of lawyer, the doctor, the carpenter, and the all, it is doubtful whether the increased traf-

Maudslay and Field, each weighing fourteen come indifferent to it if they can do better takings and evince a very laudable desire to inhabitants for its necessities, and the super- the purchase on Tuesday last of this line by capabilities of this enormous power, which or of manufacture. The hording together of the and Darlington Companies. This imsituation, so contiguous to the metropolis, render it most peculiarly adapted for a definitive colossal schemes of railways, now proposed, sum of 250l. for every 100l. share—thus gresses it excites much interest, and an ear-ly report is anxiously looked for by the scien-of general prosperity; the land will not be investment than any other passenger rail. encumbered with a useless population, and the towns will be so altered and re-constructed as to provide for them; and every kind of manufacture will be increased, and commerce extended; while from the improved facilities of transport of the raw material of become more valuable, for it must be observed ed as it is with former former ones, and plaby fostering sectional prejudices, and thus plunge us into anarchy, bloodshed and ruin.

"The increase and speculation in railways obliged to travel against cold boards, cooled Brandon, considerable confidence appears to the former company a lift of about 11. per share. In the North British, and Norwich and Brandon, considerable confidence appears to things is soon to be completely revolution- to pay for better accommodation. If the great change the better. We are now in a commonest flannel, it would be a mere act state of transition, and it is somewhat singu- of humanity; but when we look at the smith. It is true that this may make very fic consequent upon such an alteration, to be reported to the House, and the Waterlittle difference to the real state of the coun-would not more than pay the outlay; or ford and Kilkenny bill is pronounced as try or the people, for we are migratory in whether the pleasure of doing a good action proved, and the clauses are being considered our habits, and those most tied to home be-would not be more than the equivalent of —thus these three Irish lines may be proloss in £. s. d."

The Mining Journal says :-

"The most important and even astonish-Mr. Hudson, for the United Midlands, the York and North Midland, and the Newcasportant transaction has been effected by Mr. Hudson, as the representative of the above placing the shareholders in the enviable poinvestment than any other passenger rail-way yet constructed. How far the public will benefit by the arrangement, which gives Mr. Hudson, in his official position, almost unlimited power throughout the northern and a great portion of the western counties, remains to be seen; but, we cannot help prices. London and Birminghams have adwick line, to the exclusion of the Northumbe reposed, the former having advanced from 17 to 23, and the latter from 15 to 181. The generality of the new schemes have experienced but slight variations, and foreign railway shares are, perhaps, on the whole, a the market has been well supported, more especially in the heavy lines, while prices projects, evidencing that a disposition still continues, on the part of the public, to embark in enterprizes of this nature. The Staffordshire and Shropshire Junction shares left off with a disposition to advance, having

will shortly open a wide field for the employment of the labouring population."

SELECTED RAILROAD, CANAL, AND MISCELLANEOUS ITEMS.

CANADA RAILROAD.—A meeting was held at office.
Windsor, Canada, on the 15th inst., for the purpoint opposite Buffalo, to lake Huron. The meeting discussed the different routes proposed, and concluded upon Sandwich, (opposite De-troit.) as the western termination. The distance estimated is 210 miles.

At a meeting of the board of directors of the Little Miami railroad at Xenia, it was unanimonsly determined to continue the road to Spring-field by the Yellow Springs. The distance will be 19 miles, being a mile and a half shorter than the Clifton route.

MADISON AND INDIANAPOLIS RAILBOAD.— The president of the railroad has furnished the Madison Banner with the following abstract of business done on the road during the months of March, April and May last.

Passengers on the route inward—through 799, way 1041. Receipts from inward passengers,

\$1976 96.

Inward freight 321 hhds. bacon, 25,377 lbs, bacon in bulk, 311 bbls. pork and lard, 340 kegs of lard, 4522 bbls. flour, 14,888 bushels of wheat, 7949 of corn, 513 fruit, 150 flaxseed, 29,907 lbs. furniture, etc., 22,407 lbs. tobacco, 52,163 lbs. hemp, 4285 lbs. feathers, 13,550 lbs. hides and leather, 100,922 lbs. unspecified freight, 308,820 feet sawn timber, 73 tons of hay, about 10 tons of other articles, and 140 cords of wood—for which the tolls charged amounted to \$3,542 25.

The through passengers outward, during the same period, numbered 956; but the full number of way passengers outward, as well as that of the way freight, can only be ascertained from the books at Columbus. The outward freight started from Madison, however consisting of dry goods, groceries, iron, and various articles, during the month of March, amounted to 281 tons 1300 lbs .- in April, 332 tons 200 lbs .- in May, 381 tons 900 lbs .- besides 200 tons railroad iron, and more than that amount of timber for the repair or construction of the road. The actual receipts from tolls amount to \$11,400, or \$3000 more than was received last year in the same months.

The average freight for customs has been 36 tons, passengers 50, and receipts \$146 per day. The amount of bacon, pork, etc., is less than

half that of last year; but most other articles have largely increased. The increased distance is 21-2 miles. The passenger car has for about a week gone five miles north of Columbus, and before the end of the month, the train will run to Edinburgh, on 11 miles of new road, making the whole distance 56 miles from Madison.

The grading and bridging of the thirty miles from Edinburgh to Indianapolis have been put under contract on favorable terms, and there can be scarcely a doubt but before two years the road will be completed the whole distance. This

November. - Seneca Adv.

BALTIMORE AND OHIO RAILWAY COMPANY.-The directors on Thursday declined to accept the resignation of the presidency, tendered by Hon. Louis McLane, but determined to appoint a president protection. Samuel Jones, Esq., was elected to that

Bills have passed the New Hampshire legispose of fixing upon the western terminus of the proposed road in Canada, from Toronto, or a point opposite Buffalo, to lake Huron. The Concord railroad, and the Portsmouth New Market and Concord railroad (New Market and Concord railroad). ket and Exeter railroad.

> A railroad from Worcester to Brattleboro' through Barre, is in contemplation.

CONNECTICUT RIVER ROUTE OF THE VER-MONT CENTRAL RAILROAD.—Mr. Whitwell tria, Hungary, and Baden, and with this com-and his assistants have completed the survey, pliment of men, they are now, and have been and partially laid out the route of the Central railroad, from the Cheshire bridge, opposite Charlestown, N. H. (where the Cheshire road may meet,) to the mouth of White river. The distance is 30 1-2 miles, and the grades are low

bury, a committee of seven was appointed to procure a survey of the route, and make arrangements for opening the books of subscription to stock, as follows: Jas. Goodwin, E. G. Howe, Wm. L. Cowles, R. H. Hotchkiss, G. W. Bar-tholomew, J. L. M. Scoville, Fred. S. Wildman.

Under the direction of the corporators of the Atlantic and St. Lawrence railroad company, Mr. Hall has recently made a farther exploration of routes for the road. This is the promised continuation of the reconnoisance made last fall. By that survey, one principal route was examined and found to be feasible. The recent undertaking has given a further view of the whole country between Portland and the Canadian frontier, and has indicated two or three other general lines, by which a railroad communication may be effected, under very favorable conditions.

The people of Cincinnati are rejoicing over the completion of the Miami canal, by which a regular and direct .communication is established Maumee bay) on lake Erie. The Miami canal extends from Cincinnati to Defiance, and is 178 miles in length. At Defiance it strikes the great work of Indiana, the Wabash and Erie canal, making the entire line of canal from Cincinnati to Toledo, on the lake, 265 miles.

The water in the Wabash and Erie canal is to be drawn off between Fort Wayne and Lo- 1 do.; red lead, 1 do.; mix well with the ore gansport, on the 10th of July, for the purpose of and melt in a wrought iron crucible (if a stone repairs. Navigation on that part of the canal will be suspended for a few weeks.

A NEW ENGINE.—One of the most strongly and beautifully constructed engines we ever saw, passed our office on Saturday. We were inpassed our office on Saturday. We were in-formed that it was built expressly for high speed it in the usual way. Note—As soon as the asfor the Long Island railroad company, to make say begins to flow, the lead, by the power of affiis good news for Central Iodiana.

MAD RIVER RAILBOAD.—A large number of laborers are at this time basily engaged in laying the time time basily engaged in laying the time time basily engaged in laying the time ing the timber from this place south upon the inches diameter, 20 inches stroke. Two driving track of the above road. For a short distance wheels, 69 inches diameter; four guide wheels, It is now ready for the iron, and is rapidly progressing towards completion in other respects. It is expected a train of cars will run to Carey, 16 miles south from this place, at farthest by the 1st of August, and it is contemplated to complete part while the engine is in motion. Among in the engine is in motion.

nounced as safe, and it is hoped, that they the road to Kenton, 40 miles south, by the 1st of other new improvements, the Messrs. Norris have adopted on this engine, we notice a hand-some brass reservoir which is secured to the side of the boiler, holding half a gallon of oil. From this reservoir, there are several copper pipes, leading to the different journals, and each sup-plied with a cock for letting down the oil upon the journals at pleasure. This arrangement the journals at pleasure. gives the engineer an opportunity of oiling the engine while running at so rapid a rate.

Messrs. Norris are now constructing a second

Incompany which will be completed in a few days. They have now employed at their works, 320 workmen, completing orders which they now have on hand, for a number of locomotives for the governments of Auspliment of men, they are now, and have been for the last two months, completing one locomo-

Another New and Important Railroad INVENTION .- We are informed (says the editor of the United States Gazette,) by J. Hancock, and entirely favorable for the construction of a railroad.

HARTFORD AND NEW YORK RAILROAD.—
At a convention of delegates from sundry towns on or near the line of the proposed railroad from Hartford to New York, via Plymouth and Danbury, a committee of seven was appointed to Desiderata to the whole community. The content of the proposed railroad from Desiderata to the whole community. The content is the proposed railroad from Desiderata to the whole community. Desiderata to the whole community. The cost of applying it to railroads already in use will not exceed, we understand, the ordinary expenses of repairs, &c., but on the contrary, will serve to lessen them; besides having a tendency to keep animals off the track. The speed, it is said, can also be increased to 60 miles an hour, or more, with perfect safety to life and property.

PASSENGERS .- Those who are not acquainted with the facts, would be astonished to learn the great amount of travel up and down the Connecticut valley. Three lines of stages run regularly between Northampton and Springfieldtwo of them connecting with the railroad at Cabotville, and one at Springfield. There is also another line running through Amherst to Cabotville. On Friday last, the two lines from Cabotville to Northampton--which carry at low fare-brought up about fifty passengers. next day they were similarly freighted, and it was estimated that the other two lines swelled between Cincinnati and Toledo (at the head of the number of passengers to about 100. On Monday nearly the same number came up. a line of such travel, can a doubt exist that a railroad will be good stock ?-Northampton Cour.

> To discover the Proportion of Silver CONTAINED IN COPPER ORE .- To a sample of one ounce add flux red tartar, 1 ladle; nitre, 1 do.; lime, 1-2 do.; borax, 1-2 do.; fluor spar; one only can be obtained, add 1 ounce of iron,) about eight minutes, in a brisk heat, will be sufficient; for the last five minutes the assay should be incessantly stirred with an iron rod; pour the sample and cool it, break out the lump and test

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North Union. Paris and Orleans. Paris and Orleans. Preston and Wyre. Sheffield and Manchester. South Eastern. Taff Vale. Ulster. Yarmouth and Norwich. York and N. Mid, and Leeds Steax NAME OF COMPANY. Anglo Mexican Mint. Anti Dry Rot. Australian Trust Company General hteam Navigation Gt Western Steam Pa. Metropolitan Wood Pav. Peninsular and Oriental. Ditto. Polytechnic Institution . Reversionary Int. Soc. R. Mail Steam Packet . South Western Steam. Ship Owners' Towing . Thames Tunnel. University College Ashby de la Zouch . Barnsley. Birmingham, 1-16 share . Do. and LiverpoolJunction Coventry. Cromford . Derby . Erewash . Forth and Clyde . Grand Junction . Grand Surrey.	s and Selb m and M Num. of shares. 10,000 10,000 5,700 20,000 15,000 10,000 11,493 3,200 5,387 15,000 4,000 3,000 4,000 1,432 720 3,000 4,000 1,432 1	39 82 84 19 19 19 88 30 25 20 39 28 30 30 30 30 30 30 30 30 30 30 30 30 30	739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15 187,50 1,062,50 **Ancount paid.** 10 18\frac{1}{8} 35 14 100 6 1 100 6 5 7\frac{1}{8} 50 100 av. 100 100 do. do. 404 100 do. 405 100 do.	11 308,3 0 400,6 0 179,6 0 311.7 0 1,530,2 0 154,7 0 20,0 0 62,5 0 167,5 Div. p.c. per ann. 10 10 20 41 11 10 20 24 9 32 4 7	104 104 105 106 107 108 1150 1150 1150 1150 1162 102	447 9,07 115	71 37,79 11 7,06 15 14,87 13 81,48 15 11 13,85 16 15 15,75 17 10 1 13,85 18 16 16 16 16 16 16 16 16 16 16 16 16 16	42 10 0 16 0 16 0 16 0 16 0 16 0 16 0 16 0	6 16 8 8 0 0 8 0 0 nihil. nihil. 2 2 0 6 5 1 8 nihil. 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Num. of shares. 70 2,409 250 3,000 3,000 3,000 247 1,786 21,418 500 3,000 247 1,786 21,418 500 3,000 247 1,786 21,418 500 3,000 247 1,786 21,418 500 3,000 247 1,786 21,418 500 6,486 1,000 8,294 Do	West White File Boulog Centra Lyons Orlean Paris Paris Paris 1421 100 100 100 100 100 100 100 125 150 140 125 150 140 125 150 100 261 100 Work 25 100 av.	Yorkshi haven a stench R gne and a stench R gne and d of Fr and A stench R gne and Lyand Orland Ro Amount paid. 142½ 100 100 100 100 100 100 100 100 100 10	re re re re md Man Allways Amien ance vignon. s& Boro ns per ann. 70 10 10 10 10 24 17 30 24 6 74 25 14 19 15 54 65 74 24 86 74 86 86 74 86 86 74	Last price. 1140	,000,00 ,000,00 ,500,00 ,280,00 ,400,00 ,500,00 ,500,00 ,600,0 ,400,00 ,500,00 ,600,0 ,400,00 ,10 ,250,00 ,600,0 ,400,00 ,250,00 ,600,0 ,400,00 ,250,00 ,400,0
North Union. Paris and Orleans. Paris and Orleans. Paris and Rouen. Preston and Wyre. Sheffield and Manchester. South Eastern. Faff Vale. Ulster. Varmouth and Norwich. Vork and N. Mid. and Leeds Steam NAME OF COMPANY. Anglo Mexican Mint. Anti Dry Rot. Australian Trust Company General hteam Navigation Gt Western Steam Pa. Metropolitan Wood Pav. Peninsular and Oriental. Ditto. Polytechnic Institution Reversionary Int. Soc. R. Mail Steam Packet. South Western Steam. Ship Owners' Towing. Thames Tunnel. University College. Ashby de la Zouch. Barnsley. Birmingham, 1-16 share. Do. and LiverpoolJunction Coventry. Cromford. Derby. Erewash. Forth and Clyde. Grand Junction. Grand Surrey. Gloucester and Rerkley.	s and Selb m and M Num. of shares. 10,000 10,000 5,700 20,000 15,000 11,493 3,200 5,387 15,000 4,000 3,000 4,000 1,432 720 3,000 4,000 1,432 720 3,000 4,000 1,432 720 3,000 4,000 1,500 1,432 720 3,000 4,000 1,500 5,000 5,000	39 82 82 84 19 19 88 30 30 30 30 30 30 30 30 30 30 30 30 30	739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15 187,50 1,062,50	1 308,3 0 400,0 0 179,8 0 311.7 0 1,530,2 0 167,5 0 20,0 0 62,5 0 167,5 To real and	104 104 104 104 104 104 104 105	447 9,07 15	71 37,79 11 7,06 15 14,87 15 19,1,7 16 7,06 16 14,87 16 18,41 16 18,41 17 18,41 18 18,41 19 1	4 2 10 0 16 0 16 0 16 0 16 0 16 0 16 0 16	6 16 8 8 0 0 8 0 0 0 nihil. nihil. 2 2 0 6 5 0 5 1 5 1 6 5 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 100 104 6 20 39 6 20 38 6 20 38 6 25 6 25 6 25 6 25 6 25 6 25 6 25 6 2	West White File Boulog Centra Lyons Orlean Paris Paris Paris Paris 1421 100 100 100 100 100 100 125 150 140 125 150 140 125 150 100 261 100 Work 25 100 av.	Yorkshi haven a stench R gne and d of Fr and A and Lyand Orland Ro Amount paid. 142½ 100 100 100 100 100 125 145 150 100 126½ 50 100 100 100 100 100 100 100 100 100	re md Man All Wayy Amien ance vignon. s & Borons. eans Div.p.c. per ann. 70 10 10 10 10 10 17 30 24 6 74 25 12 14 19 15 54 65 104 84 86 56	Last price 1140 160 117 15 365 526 120 123 480 360 240 30 495 10 167 152 288 57 55	,000,00 100,00 ,500,00 ,280,00 ,400,00 ,500,00 ,500,00 ,600,00 ,400,00 ,500,00 ,600,00 ,100,00
North Union. Paris and Orleans. Paris and Rouen. Preston and Wyre. Sheffield and Manchester. South Eastern. Faff Vale. Ulster. Yarmouth and Norwich. York and N. Mid. and Leeds Stean NAME OF COMPANY. Anglo Mexican Mint. Anti Dry Rot. Australian Trust Company General hteam Navigation Gt Western Steam Pa. Metropolitan Wood Pav. Peninsular and Oriental. Ditto. Polytechnic Institution. Reversionary Int. Soc. R. Mail Steam Packet. South Western Steam. South Western Steam. Ship Owners' Towing. Thames Tunnel. University College. Ashby de la Zouch Barnsley. Birmingham, 1-16 share. Do. and LiverpoolJunction Coventry. Cromford. Derby. Erewash. Forth and Clyde. Grand Surrey. Gloucester and Rerkley. Grand Surrey. Gloucester and Rerkley. Grantham. Lancaster	s and Seltem and M Num. of shares. 10,000 10,000 5,700 20,000 15,000 4,000 3,200 4,000 4,000 4,000 4,000 4,000 4,000 1,500 4,000 4,000 1,500 4,000 1,500 720 3,000 460 600 231 1,297 11,600 749 11,600 5,000	39	739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15 187,50 1,062,50 **Ancount paid.** 10 18\frac{1}{8} 35 14 100 6 1 100 6 5 7\frac{1}{8} 50 100 av. 100 100 do. do. 404 100 do. 405 100 do.	11 308,3 0 400,6 0 179,6 0 311.7 0 1,530,2 0 154,7 0 20,0 0 62,5 0 167,5 Div. p.c. per ann. 10 10 20 41 11 10 20 24 9 32 4 7	104 105 106 107 108 115	447 9,07 115	71 37,79 11 7,06 14,87 13 81,48 10 18,41 10 13,85 10 10 18,41 10 13,85 10 10 18,41 10 13,85 10 10 18,41 10 13,85 10 10 18,41 10 13,85 10 10 18,41 10 13,85 10 10 18,41 10 13,85 10 10 18,41 10 11 13,85 10 11 13,8	42 10 0 16 0 1 1	6 16 8 8 0 0 8 0 0 nihil. nihil. 2 2 0 6 5 1 8 nihil. 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Num. of shares. 70 2,409 250 3,000 3,000 3,000 247 1,786 21,418 500 300 200 3,762 2,600 3,762 2,600 4,433 3,762 2,600 4,433 3,762 2,600 6,486 1,000 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6,486 6	West White File Boulog Centra Lyons Orlean Paris Paris Paris Paris 1421 100 100 100 100 100 100 100 125 150 140 125 150 140 125 150 100 261 100 work 25 100 av.	Yorkshi haven a stench R gne and a stench R gne and d of Fr and A stench R gne and Lyand Orland Ro Amount paid. 142½ 100 100 100 100 100 100 100 100 100 10	re re re re md Man Allways Amien ance vignon. s& Boro ns per ann. 70 10 10 10 10 24 17 30 24 6 74 25 14 19 15 54 65 74 24 86 74 86 86 74 86 86 86 86	Control Cont	,000,00 100,00 ,500,00 ,280,00 ,400,00 ,500,00 ,600,00 ,400,00 ,500,00 ,600,00 ,400,00 ,2500,00 ,600,00 ,400,00 ,2500,00 ,400,00 ,2500,00 ,400,00 ,2500,00 ,400,00 ,2500,00 ,400,00 ,2500,00 ,400,00 ,
North Union. Paris and Orleans. Praris and Rouen. Preston and Wyre. Sheffield and Manchester. Sheffield and Manchester. South Eastern. Paff Vale. Ulster. Yarmouth and Norwich. York and N. Mid. and Leeds Steas NAME OF COMPANY. Anglo Mexican Mint. Anti Dry Rot. Anti Dry Rot. Anslo Mexican Mint. Anti Dry Rot. Anti Dry Rot. Peneral hteam Navigation Gt Western Steam Pa. Metropolitan Wood Pav. Petente Elastic Pav. Peninsular and Oriental. Ditto. Reversionary Int. Soc. R. Mail Steam Packet. South Western Steam. Ship Owners' Towing. Thames Tunnel. University College. Ashby de la Zouch. Barnsley. Birmingham, 1-16 share. Do. and LiverpoolJunction Coventry. Cromford. Derby. Erewash. Forth and Clyde. Grand Junction. Grand Surrey. Gloucester and Rerkley. Grantham.	s and Selter mand M Num. of shares. 10,000 10,000 5,700 120,000 11,493 3,200 5,387 15,000 4,000 1,500 Cas 1,432 720 3,000 4,000 500 460 6600 231 1,297 11,600 5,000 749 11,699 2,897	39	739,20 1,600,00 1,440,00 830,00 1,150,00 2,996,00 465,00 519,15 187,50 1,062,50 Amount paid. 10 18\frac{1}{3} 35 14 100 60 5 7\frac{1}{4} 50 100 79 100 100 40. 40. 40\frac{1}{4} 100 do. do. 40\frac{1}{4} 100 do. do. 150	11 308,3 0 400,6 0 179,6 0 311,7 0 1,530,2 0 154,7 0 20,0 0 62,5 0 167,5 Div. p.c. per ann. 10 10 24 14 10 20 24 9 33 4 7	104 104 105 106 107 108 115	447 9,07 15	71 37,79. 17 91,17 7,06 16 14,87 18 14,87 18 18 18 19 18,41 19 18,	42 10 0 16 0 1 1	6 16 8 8 0 0 8 0 0 nihil. nihil. 2 2 0 6 5 1 8 nihil. 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 104 6 20 39 6 20 39 6 20 39 6 20 39 6 20 39 6 20 39 6 20 30 247 1,786 21,418 500 3,000 200 533 3,762 2,600 8,149 5,500 6,486 1,000 6,486 1,000 6,486 1,000 1,500 6,486 1,000 1,500 6,486 1,000 1,500 6,486 1,000 1,500 1,500 6,486 1,000 1,500 1,500 6,486 1,000 1,500	West White File Boulog Centra Lyons Orlean Paris Paris Paris Paris 1421 100 100 100 100 100 100 100 125 150 140 125 150 140 125 150 100 261 100 261 100 av.	Yorkshi haven a stench R gne and a stench R gne and d of Fr and A stench R gne and Lyand Orland Ro Amount paid. 142½ 100 100 100 100 100 100 100 100 100 10	re re re re re re Amien ance vignon s & Boro bons cans per ann 70 10 10 10 10 24 17 30 24 19 15 54 65 10 4 8 7 5 6 6 1 3 8 6 7 5 6 6 1 3 8 6 7 5 6 6 1 3 5 6 1 3 5 6 6 1 3 5 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 1 3 5 6 6 6 6 6 6 6 6 6 6 6 6	Last price 1140 160 117 15 365 526 120 123 480 230 360 240 30 495 10 167 152 288 57 555 126 80 137	,000,00 100,00 ,500,00 ,280,00 ,400,00 ,500,00 ,500,00 ,600,00 ,400,00 ,500,00 ,600,00 ,100,00 ,123 ,123 ,123 ,120 ,123 ,120 ,123 ,120 ,123 ,120 ,123 ,120 ,123 ,120 ,123 ,120 ,123 ,120 ,123 ,120 ,120 ,120 ,120 ,120 ,120 ,120 ,120

	STATE WORKS.	Length	11 Cont	A PARTIES	1843.	ls	COLDENS COLD		State Cane	als are all 4 fe	et deep, and t	he locks
1141		in miles	- Cost	-	Expend.	Income.	Expen					
. Y.	1 Black river canal	35	1,524,9					Th	e six mill	lions paid t	o the canal	fund fi
66 4	2 Cayuga and Seneca	21	237,0		57 10,953		14,443	aucti	on and sa	alt duties a	re not inclu	ided in
	3 Champlain canal	64	1,251,6			116,739		estim	ate of cos	st. The G	enesee valle	y and
. 1	4 Chemung	23	684,6		40 14,486	14,385	12,740	Black	river ca	nals require	e large sun	is for t
	5 Chenango.	97	2,420,0		95 15,967	22,179	15,960	comp	letion, the	interest of	which addi	tional:
3	6 Crooked lake	8	156,7	77 4	61 3,674	1,498	3,951	is mu	ch greate	er than the e	stimated gro	oss inc
1	7 Erie—enlargement of	363	12,648,8	52 1,880,3	16			of the	ese canal	s when fini	shed. The	sums
	8 Genessee valley	120	3,739,0	00				quire	d to comp	olete these to	wo canals as	re \$2,0
	9 52 miles opened, cost \$1,500,000			. 12,2	92 13,819	19,641	15,557	000 a	nd \$600,0	000, making	their total	cost w
	Oneida lake	6	50,0			621	1.636	finish	ed \$5,553	.000 and \$2	.409.000: a	n expe
	11 Oswego	38	565,4	37 29.1	17 22,742	56,165	28.599	ture i	ncurred o	n estimated	incomes (a	dmitte
1.	2 Beaver division canal	25	1111111			7,381	5 386	be lib	eral.) of	\$39,000 and	\$14 000 res	spectiv
	3 Delaware canal	60				109,278	99 870	(TIL)	orar, jor ,	thes, oce and	W11,000 1C	Special
	4 French creek	45				100,010	2010	1.0	e total rec	ceipts from	the works o	Penn
	5 Seneca river towing path			76		381		vania	10r 1843	were \$1,0	19,401; 10r	1844
	6 Columbia railroad	82	03,2	0		449 996	205 000	164,3	26, and the	e cost about	30 millions	3.
	7 Eastern division					170 701	130,007	Th	e receipts	for 1844 we	ere as follow	75:
			******			179,781	138,915					578.
	8 Juniata canal	93)				****		Railr	oad tolls,			252
	9 Portage railroad	130	******			351,102	248,943	Motiv	e power,	Walland II		319
1	Western division canal	105	Trans.	1	3 755	To Lines	177556	Truck	rs,	27/10All 15.72	July Tanisas	12
. 6	North branch Susquehannah canal West " " " 3 Hocking canal	73 1		THE PARTY OF THE		101 040	57 con	of wh	ich \$585	922 is from	118 miles o	frailr
16	2 West " " "	72				101,949	1.0	and e	578 404 6	rom 550 mi	les of canal	10 110
io g	3 Hocking canal	56	975,13	0 4.75	7	5,286	4,139					
- 6	Miami canal	85	1,660,74		0 38,826	77,844	22,341	The	canals o	f Ohio are	supported	by a p
	Miami extension	105	2,856,63		1	12,723		perty	tax of 5	mills on th	ne dollar.	There
. 6	6 Miami northern division	35	322,00			unfin'd.	- 2, / 21	853 n	niles of ca	anal in the S	State, which	yielde
1	7 Muskingum	91			*******		15,027	1843	\$471,623	, and in 18	44 \$515,393	, the
. 6	8 Ohio	324	1,627,31		4 192 209	343,711		1st Ja	ın. '43 bei	ing \$15.577.	.233. The	increa
- 1	9 Wabash	01	4,600,00		4 123,398			'44 ov	rer '43 is	only \$43,77	0, though th	ie year
. 4	Malhanding	91	3,028,34			48,589	12,817	lham a	xhibited a	greater in	crease throu	ighout
-	Walhonding	25	607,26	9 83	8 39,005	1,977	1,238	count	ry than e	ver before k	nown.	Q. TORE
1	BI Western road	31	255,01		4 1,782	8,747	2,929			illions on s		min13
	2 Sundry works		11,000,00	U			******	inaco	ese 21 mi	mions on si	didiy work	yield
1	3 Maume canal										lde about 6	1
	4 Sundry works		10,000,00	0				In	e central	railroad yie	above (per c
en	5 Central railroad	110	1,842,30	8 149,98	75,960	211,170	89,420	and E	s the only	State work	-the Erie	canal
100	5 Central railroad	68	936,29	5 24,00	7,907	60,341	70,000	cepte	i—which	is able to s	tand alone.	
~	·····		~~~	18	13. Du	~~~	844.	BDiv.	Value ,	~~~	~~~	
	CANALS.	Length	Cost.	Inco	me. per	Inc	ome.	per	of	. 1	REMARKS.	100
		miles.	-	Gross.		_	Nett.	cent.	stock.			1
1	Blackstone								*****			
1	Bald Eagle Navigation	25	400,00							-415000	Carrie Service	Milla.
-1	Beaver and Sandy, (part)		1,000,00							We may, I	perhaps, at se	ome fu
	Charleston, (S. C.)								til	me be enabl	ed to give the	ne part
1	Chesapeake and Ohio	184	12,370,47	0 47.637					la	rs of all the	ese canals.	Sec 7
	Conestota	12	300.00	0						The Chesa	peake and	Dhio ca
	Conestota Delaware and Chesapeake	13					1000	1	26 is	not yet co	ompleted to	the e
	Schuylkill	108	3 500 00	0270 705	102,221	100 609	100 69/			ines, hence		
	Farmington		0,000,00	0 013,133		. 150,050	120,00				ement of th	
	James river and Kenhawa									ill canal has		
	Middless fiver and Rennawa						*****					
1	Middlesex		********				*****		A		s canal was	
	Port Deposit.	10	200,00	0						r one millio	n, about one	e-iourt
1	Delaware and Raritan	43	2,900,00	0 99,623	53,327	. 131,491	84,455			its cost. I		
1	Southwark		300.00	0					th	at it is to be	enlarged.	Weh
1	Tide Water	45	2,900.00	0					se	en no repor	t, nor heard	of the
	Union.	80	2,000,00	0				1		ointment of		
1		101	1,000,00						28			100
	Dismal Swamp		2,000,00									
~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~	~~~	~~~	~~~~	~~~	~~~	~~	~~~			~~
	CANADIAN CANALS.	Length	No. of Loc	kage	Size of location of Width.	ks.	Width			Expended to	Incon	ne.j
	Comment Canada	miles.	locks. in	eet. chaml	per. Width.	mitre sill.	Bottom.	Surface	B.	Sept. 1843.	1843.	1844
-	The Welland canal	-					feet.	feet.	3 049 55	2 2,485,572	64,658	
	a trunk from Port Colborne to Port Dalhousi	99	31 328	feet		feet. 8 1-2	45	81	0,040,07	2,100,012	04,000	
		-	_	1 1 1 1 1 1			2.000				Esperation 1	
inc	tion branch to Dunville f not adde		1 6	150			35	71			(3) Letter	
roa	d creek branch to Port Maitland below.	1 1-2	1 6	200	45	9	45	85				
	The St. Lawrence canal	-			200	Market 1	1.0	-	1	1		11/2 6
	pps and Port Cardinal		2 7	200	45	9	50	90			ACTION AND A	
	d Plat.			1-2 200		9	50	90	672,49	973		
		3-4				9		90	012,45	313	5	
all	en's point			1-2 200			50		OCE DE	TO I CCE CCD		
uW	all, passing the Long Sault rapids	11 1-2	7 48	200		9	100	150		72 1,665,663	The state of the	
mh	arnois, do. Coteau, Cedars and Cascades roa	111 1-4	9 82	1-2 200		9	80	120	1,190,08			23
un	e, do. Lachine rapids	8 1-2	5 44	1-2 200) 45	9	80	120	old cana			1971
hir	ment of do						*****		. 1,001,33	33 64,439	ALM PARTIES	Fig. St.
hir rge		12	57 525	W 7/1	1111111111	The same	100	-	1		13016	10 to 100
hir	Total from lake Erie to the sea		9 74	120) 24	6	36	60	200,00	00 440,000	1,409	013 014
hir	Total from lake Erie to the sealy	66			~~~	~~~	104	4	Div. V	Value	The Part of the Part of	and the second
hir	lly	Lengti	n in	1	1843.	Div.	184					160
hir	COAL COMPANIES.	Length		ost.	Income.	per	Inco	me.	per	of	REMARK	5.
hir	COAL COMPANIES.	Lengti mile R. rd. C	anals.	G	Income.	per cent.			per cent.	of tock.	REMARK	S
hir	COAL COMPANIES.	Lengti mile R. rd. C	anals.	00,000 93	Income. ross. Nett 0.203 196.7	t. per cent.	Inco	me.	per cent. s	of tock.	REMARK	S
hir	COAL COMPANIES.	Lengti mile R. rd. C	anals.	00,000 93	Income.	t. per cent.	Inco	me.	per cent. s	of tock.	REMARK	S

				AME		RAILI			6151729	PRI SS	No series			open of	SALE	
***	RAILROADS.	Lengt	30	Cost.	Loans N	of	Paid on	184	ne.	Div. per	Inco	me.	per i	ous	Week en June 2	5th.
1	1.Portland, Saco and Portsmouth	miles 50	-	.200,000			hare	- and a second	Nett. 47,166	7	Gross. 131,404	Nett. 62,172		prices 1	Shares. 1	-
Me. I. H.	2 Concord	35		750,000									12	65	I M TOTAL	
lans.	3 Boston and Maine		-4	,485,461 455,703	unfin.			178,745	68,499	6	233,101	86,401	61	117		****
66	5 Boston and Lowell		1	.863.746				277,315	44,000	8	316,909	147,615		123	5	120
44	6 Boston and Providence			1,886,135	none.	18,600	100	233,388	110,823	6	282,701 428,437	156,109		114 1201		1201
	7 Boston and Worcester	21		2,914,078 250,000	not stated	*****		40,141		7	17,737	195,105				
-	9 Charlestown branch			980 960	State of the second	Andrew Committee		1.722.		13	34,654	13,971	51	771	15	80
66	10 Eastern	54 50		2,388,631	justopn'd			279,563			337,238 42,759	227,920 26,835		1131	7	1231
"	11 Fitchburg 12 Nashua and Lowell	14	1-2	380.000				84.0791		8	94,588	34,944	10	124		
11	13 New Bedford and Taunton 14 Northampton and Springfield	20		430,962 172,883	unfin.		••••	50,671	24,000	6	64,998	24,000	6			
	15 Norwich and Worcester	59		2,170,366	900,000	16,535	100	162,336	24,871		230,674	99,464	3	731	4,956	
"	16 Old Colony			87,820	unfin.						222241			1061	3	106
*	17 Stoughton branch	11		63,075 250,000				*****	20,000	8	96,687	20,000	8	118		****
11	119 Vermont and Massachusetts															
66	20 West Stockbridge	156	3	7 686 206	200 4,686,202	30,000	100	573 889	284 432		753 753	439 679	3	104	589	1041
86	22 Worcester branch to Milbury			8,431	506											
Con	23 Housatonic, (10 months,)	74		1,244,123 1,100,000	100,000						150,000	*****		31 95	11.57	
66	25 Hartford and Springfield	25	1-2	600,000	400,000	2,000	100						0			
II T	26 Stonington, (year ending 1st Sept.,) 27 Attica and Buffalo	. 48		2,600,000	650,000	13,000	100	113,889 45,896	PERCO		154,724	79,845		30	2,060	291
IN. X	28 Auburn and Rochester	31 78		336,211 1,796,349	200,000	14.000	100	189.693	112.000		1237.667	152.007	6	108	20	109
44	29 Auburn and Syracuse	. 26		766.65	7		1331	86,291	27,334		96,738	52,544	6	116		
86	30 Buffalo and Niagara	. 22		5 000 00	0	1,500								100	375	30
ec.	32 Erie, opened	. 53							48,000		126,020	59,075				
44	33 Harlem	. 26		1,206,23	3			*****			140,685 35,029	62,399		671	710	69
88	35 Long Island.	. 96		1,610,22	1 392,340	29,846								711	5,342	72
-11	36 Mohawk and Hudson	. 17		1,317,89	3 400,000	10,000	100	69.948	58.78	0	79.804	45,763		58	100	58
**	37 Saratoga and Schenectady	. 22	1-9	303,65 640,80				28.043	3,00	1	34,666					
88	39 Syracuse and Utica	. 53		1,115,89	7 none.	16,000	62	163,701	72,00	0	. 192,06	120,999	8	1151		
86	40 Tonnawanda			727,33	2			76,227			. 114,17	75,86	5			
"	42 Troy and Saratoga.	. 25		475.80	1			44.325	21.00	0	. 38.50	9,97	1 2	1		
N.	43 Utica and Schenectady	. 78		2,168,16	5 none.	20,00	100	277,164	180,00	0 . 9	331,93	199'09	8	132	1	0112
46	45 Elizabethtown and Somerville	26		500,00	0		1	002,002	303,00		104,13	1 404,55				
- 66	46 New Jersey	. 34		2,000,00	0								1	. 94		
Pa	47 Paterson	. 26		1.000.00	0								6	87		
66	49 Cumberland Valley	46	;	11.250.00	01											
"	50 Harrisburg and Lancaster	* 36		860,00	0									. 30		
- 66	52 Little Schuvlkill	. 29		900.00	00											
41	53 Blossburg and Corning 54 Mauch Chunk	40		600,00	00											
66	55 Minehill and Schuylkill Haven	. 18	,		00									. 80		
66	56 Norristown	20	0	800.00	00									. 61		
- 66	Dar miaucidma and Trenductions	.* 30	91-	2 1 500 0	00									. 104		
66	59 Reading	94	4	9.457.5	70 7.447.57	0 40.20	0 50				. 597.61	3 343.51	1	. 56	2,78	5 56
45	60 Schuvlkill vallev	. * 10		1,000,0	00			90.00								
- 66	62 Philadelphia and Baltimore.	9:		4,400,0	00			43,04	3 200,00	00		210,00	0	. 18	8,12	6 17
D	el. 63 Frenchtown	11		1 600.00	MII	11 12 12 14	0				er dune ber		. 1			
	d. 64 Baltimore and Ohio, (1st Oct.) 65 Baltimore and Susquehanna	18		12 000 0	00	1		1	1				7	0.0		7 49
37	66 Baltimore and Washington	. 3	R	11-800 0	001			1177 99	71 71 69	111	1212 19	9 104,52	9	84		
V	68 Petersburg and Roanoke	* 6	71.	950,0	80						199 9	79.90	8			
	69 Portsmouth and Roanoke	7	81	2 1.454.1	711											
	70 Richmond, Fredericksb'g and Potom 71 Richmond and Petersburg	1C* 7	6 22 1	800,0	00						185,2	85,68	88	5		
	72 Winchester and Potomac	3	12	500.0	00											
N.	C. 73 Raleigh and Gaston	8	34 1	-21,360,0	00											
10.00		. *116	11	11 80010	MM	and the same							1			
	176 Columbia	. 3 6	66	5,671,4	52	34,4	10 7	201,46	34 77,4	56	328,4	25 180,7	04			
G	a. 77 Central	19	90	2,581,7	23			227,53	32 93,1	90	040.0	06 147				14
	13 mongomery and west route	8	39	1 annual	MAN I AUGUS	RHADAGA	- III	U Landan			1 -300 13	MI IN IN				
K	v. 80 Lexington and Ohio	4	40	450.0	000								. 21			
	nio 81 Little Miami	4	40	152 (000											
L	nd. 83 Madison and Indianapolis.	!	56	212,0	000											
C	an. 84 Champlain and St. Lawrence	1	15						12,0	001	58,0	00 24,0	00	110	l	

Common Co

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AMERICAN RAILROAD JOURNAL.

PUBLISHED BY D. K. MINOR, 23 Chambers street, N.Y.

Thursday, July 3, 1845.

RAILROADS IN CANADA.

During the past winter and spring we have be stowed much attention on the proposed railroads from Montreal to Portland, and from Ontario to Huron. There has been quite enough said and written, and the time for action is at hand. We not only did our part as faithful chroniclers of passing events, likely to influence these great works, but we also went so success. A gentleman is to be sent out from Montreal to London to lay the merits of the "Atlantic and St. Lawrence railway" before British capitalists, and, singularly enough, it is proposed to associate with him one who has played a leading part in drawing the province into the construction of a system of gigantic canals, about as many times greater than the productive canals of England, as the trade they are to accommodate is less. We particularly cautioned the friends of the Great Western railway an avoidance of those visionary and bombastic statements which have led to such unfortunate expenditures in this and the western States, and a close adherence to the system which has led to such brilliant results in England and Massachusetts: that is-to examine well the cost and income of the project before offering the stock to the public. Of the Atlantic and St. Lawrence railway we have seen merely rents and interest \$1,196. to the actual value of the investment.

But with the Great Western railway, the case is different. The country is easy and well known, the winter is less severe than at Albany, and, what is of more importance than all the rest, the trade is already there to an extent far greater than is required to make the work eminently successful. Again, the ascertained at Detroit and Buffalo, so that one or two well informed men of business, who enjoy the confidence of their fellow citizens, aided by an engineer of skill and character, might, in a few months, prehere we may observe, that local jealousies and rival schemes abound there as every where else. The road is to be carried down the lake to Toronto, and of the Schuylkill canal, and at its terminus in

all go by Detroit, and as that is the eastern terminus fects everywhere .- Philadelphia Paper. peninsula of Michigan, it is obvious that the best timore railroad company inform the public that the communication with that city is a great desideratum. If a line to that point offers equal accommodation to the Canadian trade and the Canadian trade a the Canadian trade and travel, then must we consider the case pretty well made out. We await impatiently the announcement of some definite and systematic plan of operations which we shall hasten to lay before our readers, with such remarks and elucidations as our humble yet zealous efforts are capable of affording.

EXTRAORDINARY LOCOMOTIVE.-We intended to notice in our last an "extraordinary performance of a locomotive;" but it turned out, according to the printer's figures-they were certainly not ours-that the engine itself was much more extraordinary than its performance, as it is represented to weigh 1308 tons, instead of 13.8 as written. The "Manatawney," the engine referred to, weighs 13, tons, instead of 1308, as printed.

AMERICAN RAILROAD IRON .- We ask the attention of those who would burchase railroad iron to the advertisement, in this number, of the far as to point out what we considered the course to "Maryland and New-York Iron and Coal Company," or, as it is better known, the Mount Savage Iron Company. This establishment is, as it will be seen, ready to receive orders and make contracts for railroad iron of all kinds, and we hope to be able to announce similar information from at least half a dozen other manufactories before the end of the year.

against this error. Above all things we recommended ers at their late annual meeting, shows that the one week. amount of capital stock of the road is \$750,000, and the cost of the road and its appendages \$756,444. The length of the road is 34 3-5 miles, and the maximum grades 15 8-10 feet per mile.

The income of the road the last year amounted to \$181,842, of which the passenger department afforded \$90,545, freight \$90,099, and The expenses a report of a preliminary survey, and some general amounted to \$82,928; of which \$11,528 were statistics, and therefore do not feel ourselves war- for road repairs; \$9,708 for wood and oil; \$6,ranted in forming, far less expressing, an opinion as 393 for taxes, and other expenses. Net income \$98.913. Two dividends were declared, one of 6 and the other of 7 per cent.

RAILWAYS VS. CANALS IN GREAT BRITAIN. -By a notice in an English paper, we perceive that railways are gaining the ascendency over canals in that country. "The Ellsmere and Chester, and the Birmingham and Liverpool canal companies," (now united,) advertise that kind and amount of trade and travel may be easily they hold, including branches in various directions (through the coal and iron field of North

Wales, etc.,) 160 miles of canal.

They call the attention of their shareholders to the fact no longer to be disguised, that the pare a statement which could be fearlessly submitted public preference for railways is fast destroying to the severest scrutiny. If the Atlantic and St. the whole canal interest of the country. And Lawrence railway have any chance with British ca- the committee recommend, as the only means of pitalists, we must think that the Great Western rail-way is—with fair play—certain of success. And here we may observe that local jealousies and rival converting it into railroads.

extensive branches are to be carried to the north, bethis city, and compare their utter desolation with

Minerial And Schuylkill Haven Railroad—
this city, and compare their utter desolation with

Minerial And Schuylkill Haven Railroad—
this city, and compare their utter desolation with
the desolation with the forcing Market Carron Railroad—total tons. 105,289 hamlet from opposite Detroit to far up on the eastern Delaware, and he will be struck with the forci- MOUNT CARBON RAILROAD-total tons. 105,289

Correspondents will oblige us by sending in their shore of lake Huron. As the American travel-will ble conviction, that like causes produce like ef-

RECEIPTS.	Z ASSESSED !
THE MORAWK RAILBOAD.—The receipts Mohawk railroad show a large increase year, for the second week in June: Passengers.	over last
Passengers	120 97
Total	\$1872 16 1267 00
Excess in 1845	605 16
WESTERN RAILROAD.—Receipts for the wing June 21:	reek end-
1845. Passengers	1844. \$7,775 7,136
Total	The re- May. 1844. 88,456 51 00,291 80 48,060 66
READING RAILROAD.—Transactions for the week in June for three years: 1843. 1844. Business\$7,910 08 \$11,378 72 \$ Coal transported, tons.4,490 9,251	1845. 23,180 71
THE COAL TRADE.—SCHUYLKILL VALI	B C TO TO THE PARTY OF THE PART

The shipments this week are by railroad 23,963.05, CONCORD RAILROAD.—The report of the diarectors of the Concord railroad to the stockhold-the largest quantity ever sent from this region in any

The following is a comparison of the trade from the Schuylkill and Lehigh regions, to the same pe-

riod last year.	ngn regions, t	o the same pe-
	1844.	1845.
Schuylkill—railroad,	155,971.03	282,550-15
" canal,	126,129-18	80,493.04
Lehigh,	96,930-00	138,522.00
ela vala	378,031.20	501,465·19 379,031·01
Increase in 1845	,	122,434·10
	RAILROAD.	
From Pottsville and I		
From Schuylkill Have	n-total	158,916-19
From Port Clinton—to	otal	3,326·19
Total by railroad		282,550-15
B	CANAL.	Securiodistrictural C
From Pottsville and P	ort Carbon—to	otal 50,245·11
From Schuylkill Hav	en—total tons	12,511.14
From Port Clinton		17,635 19
Total by canal	The Indiana	80 393-04
Tour by Cummittees		
Total by railroad and	canal	362,943-19
	COAL TRADE.	
Total shipments fro	om Mauch Cl	hunk. Lehigh
coal and navigation co	0.	Phylogen III.
Summit mines, -	H SERVICE OF	62522
Room run do., -	ALL CAUCES	20353-82875
Beaver Meadow railro	oad and coal co	0., 26679
From Penn Haven-1	Hazleton coal c	21906
From Rock Port-Bue	ek Mountain e	oal co., 7062

WYUMING COAL TRADE—total PINE GROVE COAL TRADE.—total 23,466 BALTIMORE AND WASHINGTON RAILROAD,

We have felt called upon, in support of our favorite theory-viz: "low fares and high speed for passengers"-to refer more than once, and recently in a somewhat pointed manner, to the rates charged on the Baltimore and Washington railroad. We feel assured that our motives, in the course pursued by the Journal, cannot be misunderstood. We have neither personal interest to promote, nor private griefs to assuage, by ject in question. a change of policy in this or other cases of railroad management-or rather, as we have sometimes thought, mis-management. Our only aim and object has been and is "the greatest good to the greatest number"-but placing always first those enterprizing and liberal citizens who have invested, and in the case of the Baltimore and Ohio railroad company especially, having been lic good alone, such reductions are never advopioneers in the cause, risked their capital; therefore the only question to be solved in our mind is what rates of fare on this road will, at the same time produce the best returns to the shareholders, and the greatest accommodation to those who desire to travel. This, we admit, is an important question; one which requires due deliberation before a change is adopted. We therefore give place to the following well written communication on the subject, from a source commanding our highest respect, which, had it come to hand in time, would have appeared in our last number, and we ask for it an attentive perusal by all who feel an interest in the matter -and who that travels does not ?

[For the American Railroad Journal.]

High Fares - Baltimore and Washington Railroad .- The company who are the proprietors of this railway have been frequently and harshly censured for their alleged extortion in charging \$2 50 for carrying passengers from Baltimore to Washington. The complaint has come in part from the travelling public, and in part from the Virginia line of railroads south of Washington. The public forgets that before this railroad was opened they paid \$3 for making the same journey in seven hours over an inferior turnpike road, almost impassable in the winter, and that the railroad saves them at least five hours in time and fifty cents in money, and affords them a proportional increase of safety and comfort. The Virginia companies forget that but for this railroad they would probably have never come into existence, and that they were in fact constructed and put into operation some time after its completion, with a full knowledge that its charter fixed its charge at the rate above mentioned. They also forget that on their local, or way travel, one of them is charging even higher rates (8 cents per mile) than those of the Washington railroad, and that their clamor for a reduction of the latter has been dictated less by a regard for the public, than by a desire to break down a rival work, the Portsmouth and Roanoke railroad, which, in connection with the bay steamboats, has always competed with them for the southern travel.

their complaints against the Baltimore and Ohio! 9,068 round trip passengers from Balrailroad company are not so well founded as is generally believed.

possession of the legal power to reduce the fare 24,499 way passengers between inter-upon their Washington branch, only since the mediate points, short of the They have the matter unfirst of June. der advisement, and have not yet decided what they will do, but desire, and should be allowed, full time to mature their measures upon the sub- 81,490 pas'g'rs, producing a revenue of \$168,318

Again. The reduction is urged as much on the ground that it will advance the interests of the company, as that it will promote those of the public-and low fares are always pressed upon this principle. Railroad companies are not expected to do what will induce a permanent decrease in their revenue. On the ground of pubcated by reasonable men. Boards of direction must look first of all to the returns upon the capital intrusted to their management. Maximum dividends are their prime legitimate aim. Were it otherwise, they would be guilty of breach of trust. Happily the policy that will produce this 25,268 maximum is also the one which will ultimately be most advantageous to the public. If the rates are too high, trade and travel is checked, and the revenue falls off, while the people are partially deprived of the use of the work. If too low, they have a fuller enjoyment of the improvement, but it is only for a time; as, the income becoming insufficient to keep it in proper repair. and pay a proper interest to the proprietors, it languishes, and perhaps finally comes to a stand. So that the public is at first badly accommodated. and at last not at all. These are self-evident truths, but they require to be recalled to the attention of those who clamor for low fares without consideration. The only right rule I conceive, is that of the maximum revenue. principle may seem selfish, but it is not the less sound, and is indeed formally denied by no one.

Now the palpable inference from this is, that a rate of fare having been established and found to yield a fair interest on the capital invested, should not be changed without due consideration: for the effect of any change is always doubtful. This amounts to no more than saying that no prudent person takes a step in the dark if he can help it. The Baltimore and Ohio railroad company is now acting thus prudentially, and is looking narrowly into the probable issue of a reduction in its rates before it determines to reduce

That there is reason for caution will be seen from the following statements,

It is known that a line of post coaches, (established and supported by the Virginia railroads, to favor their rivalry of the bay route) has been running for a year or two past upon the turnpike in opposition to the Washington railroad. In the 101 months preceding the 30th of April last, the Washington railroad carried

40,155 through passengers from Baltimore to Washington only, at

\$2 50, I shall in a few words attempt to show that 7,767 do. do., going south, do.

timore to Washington and back, \$2 50,

22,672

In the first place that company has been in 56,991 through passengers, yielding \$142,478 whole distance, and averaging a distance of about 17 miles, at \$1 06 -25,840

> The post coach line on the turnpike within the same period, carried

9,337 passengers through from Baltimore to Washington only.

3,889 do. do. going south.
769 do. way between intermediate points.

13,995 total carried by coaches, at \$1 50 to the through passenger, with \$1 added for those going south by the Virginia railroad companies.

Adding together the through and way passengers carried by both the railroad and the coaches, we have

70,217 passengers carried through in both ways. do. do. to less distances, say about one-half the whole distance.

Now if the railroad had carried all these passengers, at \$2 for through passengers, and five cents per mile for way, the loss to the company would have been, - \$6,399

And if carried for \$1 50 for through passengers and four cents per mile for way,

the loss would have been 41,508 So that if the stages had been driven off, and the whole travel secured to the railroad, to effect which the latter and greater reduction would have been doubtless necessary, the road would have lost upwards of \$40,000 of revenue, and have paid less than 6 per cent. on its cost.

But it will be said, would not the number of passengers have been so increased as to make up the same net revenue. Now, it is the doubt on the minds of the directors, on this very point, which leads them to hesitate as to the policy of the reduction; for it will be seen that under the half-price, round trip, fare of \$1 25, upwards of 9000 passengers made the excursion within the time above mentioned, and the probability is that this number embraced nearly, if not quite, all of those whom the reduction of fare would have induced to make the journey. In fact the 24 hours allowed for the trip, (one-sixth of which only is spent on the road,) will be, in the opinion of most of those who are acquainted with the federal metropolis, quite sufficient for the enjoyment of all the pleasure likely to be realized from the excursion. At least, it should be admitted to be a question not altogether free from doubt, and upon which the company interested may take time to deliberate, without deserving odium and reproach.

The truth of the matter then is-1st, that this company has in fact already exercised its power of reduction to its full extent in favor of excursion passengers, upon whom chiefly low fares would be likely to operate in augmenting \$100,388 travel; and that this class of passengers have 19,418 been carried at the reasonable rate of \$2 50 for

80 mil rection at this attend nue of mount rant th

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per fiel pec Spp reason fie ca ce wi pe ca co do wl am all firm

80 miles, or 31 cents per mile. 2d, that the direction has good reason to fear that a reduction, at this juncture, on the general travel would be attended by a considerable decrease of the revenue of the road, which their prime and paramount duty to their stockholders would not warrant them in risking.

2

If then the professed confidence in the sagacity and honesty of these gentlemen be really entertained, why are they not left to judge of the propriety of a measure the results of which they have the means of foreseeing so much more clearly than others? I address myself, of course, only to those who recognize the principles laid down in the outset of these remarks. To those who demand low fares at the sacrifice of the proprietors of the work, I have nothing to say which would influence their opinions or silence their clamor, the continuance of which must therefore be submitted to with becoming patience. Z.

NEW HAVEN AND NORTHAMPTON RAILROAD -The New Haven and Northampton Canal Co. have had it in contemplation for some time, and are now concerting measures for an increase and other contemplated roads, and thus bring the travel and transportation of the populous and thriving valley of the Connecticut to New York by way of New Haven, using both the canal the Reading railroad. and railroad, and tapping in its course the great Western road from Boston to Albany and Westfield, (sixty miles from here,) making it decidedly the nearest route to Albany—and

all the materials for the superstructure, it has been ascertained that the whole can be done with the heaviest T rail, for about seven thousand er valley of the river, and Albany and Westfield, with New Haven, as soon as the Boston people located their great road to Albany through Springfield, Westfield, &c.

It will be said, that there being one route al-

The high price of iron, and other causes, moved, in cutting and filling which, at 10 cents prevented the proprietors of the canal company yard, gives \$200. But I will suppose the obstact prevented the proprietors of the canal company making application to the General Assembly at its last session, for the permission to lay down their intended road, nor did they intend to agitate the matter till they were ready to commence work—but we are happy to learn that all their arrangements will probably be completed before the meeting of the next Legislature, when it will be found that for short arrangements ture, when it will be found that for about seven hundred and fifty thousand dollars, the com-pany will have a first rate railroad of eighty miles in extent, and a canal of the same extent now in full and successful operation .- New Haven Courier.

We copy the above from the New Haven Courier, for the purpose of showing that those concerned are making use of suggestions contained in the Railroad Journal five years ago. tage of railways and canals for heavy freight, as exemplified by the best lines for that purpose in this country, viz. : the Schuylkill canal and

We copy below the estimates referred to, as published in this journal in June, 1840.

"It now remains to show the practicability at a decidedly the nearest route to Albany—and should the Hartford and Danbury road ever be made, that too would be tapped at Plainville, (Bristol Basin.) twenty-seven miles from here.

The whole length being already graded, with the exception of some slight additions about the locks, having one entire level of twenty-six deep. The slopes of the canal are 1 foot perpenditions and rew Haven rainval is graded for a double track.

"I now ask, can you have anything to fear from a railroad which would cost nearly three times as mall expense, of making a railroad on the site of track.

"I now ask, can you have anything to fear from a railroad which would cost nearly three times as mall expense, of the canal freely flavor and rew Haven rainval is graded for a double track.

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"I now ask, can you have anything to fear from a railroad which would cost nearly three times as mall expense, of making a railroad on the site of track. the exception of some slight additions about the exception of the example of the cular, to 1½ horizontal; preserving the same slopes for the ditches, their bottom width would be one foot. The bottom width of the canal is twenty feet—the ditches occupying four feet on each side, still leaves can be seen excluded, as being in this communication width for the relief of the side of the si the heaviest T rail, for about seven thousand dollars per mile—say \$560,000 for eighty miles! Many persons now express their surprise, that the canal company, or the New Haven people, did not avail themselves of the already graded banks of the canal to connect by railroad the up-tangent of the most permanent and substantial kind. "If this communication shall be so fortunate as to awaken inquiry on the subject, I shall feel that it has to the canal to connect by railroad the up-tangent of the most permanent and substantial kind. "If this communication shall be so fortunate as to awaken inquiry on the subject, I shall feel that it has the canal to connect by railroad the up-tangent of the most permanent and substantial kind. "If this communication shall be so fortunate as to awaken inquiry on the subject, I shall feel that it has the canal to connect by railroad the up-tangent of the most permanent and substantial kind. "If this communication shall be so fortunate as to awaken inquiry on the subject, I shall feel that it has the canal to connect by railroad the up-tangent of the most permanent and substantial kind. "If this communication shall be so fortunate as to awaken inquiry on the subject, I shall feel that it has the canal to connect by railroad the up-tangent of the most permanent and substantial kind. ture. In a few instances the canal is 'below bottom;' that is, in crossing ravines, a single bank was sometimes thrown off, forming the towing path—the water being allowed to spread itself the whole length of the ravine. In such cases a culvert would be ne-cessary to drain off the water, and the towing path would require to be levelled down to form the road-way. When a number of locks occur together, it ready made at great expense, another, (although way. When a number of locks occur together, it some twelve or fourteen miles shorter to West-would probably be necessary to change the location cannot be supported. This may be true to a mistances where this would require to be done; in all other cases the elevation could be overcome with-out leaving the line of the canal, and at a very trifling expense; where they occur singly, which is frequently the case, the elevation would be overcome can best afford to carry for low fare, the one that best costs only seven hundred and fifty thousand the cost of the case, the elevation would be overcome by a plane = 1056 feet long, on an inclination of fifty feet to the mile. Wherever they are 1056 feet dollars, or the one that has cost of the case, the elevation would be coverced to the mile.

yard, gives \$200. But I will suppose the obstacle presented by each lock to cost in its removal \$1000. presented by each lock to cost in its removal \$1000. The whole number of locks is about 60. We have then the sum of \$60,000 for this item. I will state in this place that there is one level on the canal 28 miles long. The ditches give for the 80 miles, 78,-160 cubic yards of earth, at six cents per yard, gives \$4,689 60. Levelling down the towing path at certain places, I will estimate at \$500 per mile. The super structure for a single track may be safely estimated at \$5000 ner mile. timated at \$5000 per mile.
"RECAPITULATION.

Planes at 60 locks

Total\$504,689 60

Average per mile..... "Thus you have a railroad for the last mentioned In the number for June, 1840, will be found a communication from the pen of one of the engineers of that canal, giving in detail the estimates of the cost of converting the canal into a railroad. The above notice speaks of the "advantage of having a canal for the transportation of heavy when the canal into a railroad canal for the transportation of heavy and a canal for the transportation of heavy which are frequently to be found on railroads combined with steep grades. On a railroad in Pannsylvania there are curves of 240 feet freight, alongside the railroad." We would call the attention of the New Haven Courier to an an enterprize, from the competition of other roads, of capital, to enable them to lay down a railroad on their towing path from New Haven to which gives a good idea of the relative advannecting with the Northampton and Greenfield, tage of railways and canals for heavy freight, \$800,000. It has probably cost fully that sum. Suppose it extended to Springfield, or even to Northampton, at the rate of \$15,000 for a single track a low estimate, and we have the sum of \$1,460,000 as the cost of a railroad from New Haven to Northampton, by the way of Hartford, or an average sum per mile of \$18,250, besides having the disadvantage of not being a continuous line. It is true the Hartford and New Haven railroad is graded for a double

project needs but be fairly investigated to be carried into operation."

OGDENSBURGH AND LAKE CHAMPLAIN.

The trade of the West-exhibiting the merits of the proposed route from Roston, across lake Champlain to Ogdensburgh.

field, and considerably shorter to Northampton, for a short distance: there may be some five or six Opposite the termination of this railroad, at cannot be supported. This may be true to a instances where this would require to be done; in Ogdensburg, west of the St. Lawrence, spreads all other cases the elevation could be overcome with out the rich province of Canada West. With a out the rich province of Canada West. soil unsurpassed in richness by the same extent of territory in America, with a population rapidly increasing in numbers and improving in character, with a healthy climate and a stable governcosts only seven hundred and fifty thousand dollars, or the one that has cost, or will cost when completed, one or two millions of dollars and even with this cost, thirty-six miles of it and even with this cost, thirty-six miles of it still in flat rail. The New Haven and North-ampton road will be perfect in all its appointments, with the advantage of a first rate canal alongside of it for the transportation of heavy freight, and will connect about three hundred miles of railroad with New York, with the unusual advantage of water communication for beavy freight alongside of it for the whole distance from the planes at the locks where they occur singly, to bring them to a grade of 50 feet to the mile. Wherever they are 1056 feet apart, the elevation would be overcome with the apart, the elevation would be overcome with the same ease. By adopting such grades as those on the best agricultural districts of the whole British empire. Ten years ago it contained a population of 320,000. The total amount of property at that time was \$187,000, 100, and the annual products were over \$60,000 to a plane, gives an inclination of 72 feet per mile. The planes at the locks where they occur singly, to bring them to a grade of 50 feet to the mile, would of population and business. As the population heavy freight alongside of it for the whole districts of the cone of the best agricultural districts of the whole British empire. Ten years ago it contained a population of 320,000. The total amount of property at that time was \$187,000, 100, and the annual products were over \$60,000 to the value of goods imported into both provinces in 1836, was over \$13,000,000. Since that time there has been a very great increase of population and business. As the population of the eastern province was larger than the west-time. ern at that time, it is fair to suppose that she retained a proportionate amount of the imports, the balance being forwarded west by the St.

Lawrence and the canals. There must have weight of the motive power required to over
(probably 480 was intended,) miles in length—and from its high grades and curvatures, can never compete with our northern route." een at least \$5,000,000 worth of British and Irish produce and manufactures and foreign and colonial merchandize sent to Canada West thro the St. Lawrence and the Canada canals in the year 1836, and the amount has probably doubled since that time.

No one communication from the basin of the St. Lawrence to the Atlantic can command the

whole of this trade.

[For the American Railroad Journal.]

RAILROAD ROUTE FROM NEW YORK TO THE

Very much has been written and said as to the best railroad line from New York to Northern railroad from Ogdensburg to lake property over a level and convenient railthe western lakes. From the varied expla. Champlain, who have lately visited Boston, way, through a densely populous region, nations, it would scarcely be inferred-that and addressed a letter to the Hon. Abbott that are set forth as the leading reason to 325 miles of the distance is now occupied Lawrence, commending their project, and invite capitalists to invest money in the conby a railway. The distance from New York tendering it to the people of Boston, as the struction of a railway through a wilderness to Buffalo, by the Central railway line from most favorable route between that city and at the north, or winding among and over Albany west, is 475 miles. From New York the western country, because "the New York mountains at the south. to lake Erie, by the Erie railroad route, is at roads located along the line of our canal are least 480 miles. How many persons in the compelled to pay tolls of the canal upon all work should be, that is, free to do all that city of New York are aware of the fact, that freight passing over them, equal to 35 cents can be done over it, without being clogged it is actually as far by the Erie railroad to for each barrel of flour, and on the average and tasked with tolls; let there be a good Dunkirk, as it is by the way of Albany to \$5 per ton for merchandize." Buffalo? It has been the experience of the writer to find very few who were correctly is, that the route along the canal is the most and Oswego; and New-York will then have advised. They are still less aware of other favorable by nature, and the one upon which an opportunity of testing the value of railequally stubborn facts that have an impor- capitalists invest their money, but there are ways; and there will be an outlet from lake tant bearing.

the capacity of the railway. Of two routes which they otherwise would have difficulty between the same points, that which is the in sharing. How long will these tolls be outlived, to contribute largely to one line most level, and has the least curvature, has continued against the good sense of an in- and to impose burdens on another. Yet this by so far the advantage in capacity and in telligent people? They were imposed by ri- has been practically done in our state. Three economy of management. This is the com- val interests-by those living upon unfavoramon-sense practical way of looking at im- ble routes, with the view to be able to say, road company, to enable them to build a provements of this character. So long as what this committee have now said, that road some portion of the way within sixty the laws of gravitation remain, the fact is while they are continued, they add to the cost miles of the Central route, and the broadest fixed, that railroads with severe grades, and of transportation almost as much as the powers are granted as to carrying freight, sharp curves, can never successfully com. grades and curves upon these prospective &c., while, on the Central route, the transpete with those of comparatively level face, competing routes. and of straight lines.

of the engine will require so rigid and strong been before. a structure, as to add greatly to the cost of The address of this committee, in their construction. Already, upon the western zeal to enlist the aid of Boston in their plans, railroad in Massachusetts, many of the bars thus disposes of two other railroad routes: are failing in consequence solely of the great "The New York and Erie road will be 580 in relation to the superior advantages of a

may be so located as to be very direct, and with slight grades. From Albany to Buffa-lo it is known to be very straight, and with railway over the Berkshire mountains will with slight grades. From Albany to Buffaslight inclinations, and although now of a take much of the freight coming over the wood structure, yet preparations are making Central railway of our state? to relay it with an improved rail bar, when not : freight could pass on a railway from it will exceed any road in this country by Springfield, at less cost than from Buffalo to reason of its level and direct line.

One very interesting objection is made to the Central line." it by a committee composed of members of our legislature and commissioners of the York legislature upon the transportation of

tolls upon this line, which clogs it, so as to Ontario that will be found quite as available Grades and curves measure the value and make others hope to participate in a business as any other.

These tolls must be taken off; they are a There are well established rules to show burden upon the consumer; they go to enthe ratio in which the power of the engine hance the price of property at the place of on stating the fact. The favors granted, or is diminished, or increased, in ascending sale, and are as narrow, illiberal and unjust the money expended, in aid of any route, grades of greater or less inclination. We as if the legislature should attempt to equa- is by no means objected to; but the shorthave found, to be sure, that we can ascend lize the fertility of the soil in Ontario, Ligrades of 84 feet to the mile, by using an vingston and Monroe, with that of Delaware engine of enormous' weight; but we have and Sullivan, or Franklin and Clinton, by not yet found an economical iron structure, imposing such tax upon the surplus producthat will endure the pressure of this great tions of the former as would bring them weight. These grades can only be ascend- down to a level with the last named counties. ed by such a machine as is practically un- They will be swept away when they come fitted to a level road. To endure the weight to be examined, as other like burdens have

"When the Harlem railroad shall be extended to Albany, as it will be within two We think Ogdensburg, via Burlington and Boston, to the same point, considering the tolls paid by

Thus, it is the tolls imposed by the New.

Let the Central railway be what such a road from New-York to Albany, and a short In plain language, this means, as the fact connection established between Syracuse

> It is a policy which we shall soon have millions of dollars are given to the Erie railportation of freight is prohibited in summer and tolls are imposed in the winter.

> The impropriety of this will be apparent sighted policy of curbing and restraining another line, is not worthy of an intelligent people. Let each one stand upon its own merits. Give the railways and the canal a fair opportunity, without attempting to monopolize business by legislative action for either. A proper competition, checked by physical laws, which are the only rational restraints, among intelligent men, would enure to the proper developement of the western country, to the great advantage of the city, and to the benefit of our state.

We concur fully with "W." in his views

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over the Central route. We consider it, though our acquaintance with them is exto the business community and to those who of a city or village where we have not a perting the Erie canal! as oppressive, unjust, and undignified; and which ought, therefore, to be abandoned, as it surely will soon liberty to seek the natural and the most conor by unwise state policy.

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[For the American Railroad Journal.]

AUGUSTA, GA., June 24, 1845.

I presume the editor of the Railroad Journal has, ere this, heard of the great enterprize we have on hand, in an attempt to make our city a southern Lowell.

We have commenced and are rapidly executing a canal for manufacturing purposes. It will be nine miles in length, including rather more than two miles in the city. The bottom is 20 power, to contribute. feet wide, and the depth 5 feet at the upper end, -slopes 2 to 1. The nature of the ground in the city gives us three falls of about 13 feet each .-The Savannah, from which the water is taken late on an unfailing supply.

mense trade with the interior. By these means we have the raw material, provisions, fuel, and building materials at the cheapest rate at our doors. The river, and the railroad to Charleston afford easy means of communication with the seaboard; and, altogether, our local advantages are such as to present the greatest attraction to men of skill and enterprize south of Lowell. I trust these will be duly appreciated by our northern friends, and that their capital and skill will contribute to develope our great resources. GEORGIA.

level route and straight lines for railroads, therefore the more obliged to the writer for than the Reading bridge. These bridges have as well as in relation to the impolicy-more the information. We have long entertained a space of 80 feet in the clear, are designed for than that, the injustice—of charging canal a favorable opinion of the enterprize and highway bridges, and cost from 1500 to 1600 tolls upon freight carried on the railroads public spirit of the citizens of Augusta, Ga., and have often spoken of it as, a narrow, ceedingly limited. We usually form our illiberal, and unjust policy, alike oppressive opinion of the people, or of the business men, have invested their capital at their own risk, sonal acquaintance, from their newspapers; but for the public convenience, in the line and in this case, from the "Chronicle & of railroad from the Hudson river to lake Sentinel," which we perceive is published Erie. We look upon it much in the same daily, tri-weekly, and weekly, though, by-thelight that we do the levying a direct tax, by by, we only see the weekly sheet, which is the state of New Jersey, upon travellers who one of the largest and best filled sheets repass by railroad between this city and Phila- ceived by us from the south; and, therefore, delphia; and by the state of Maryland upon with such a water power, in one of the most those who pass between Baltimore and healthy localities, if we recollect correctly, Washington; and as all now look upon the in the south, and with such resources for obformer course of this state, when, in 1817 taining cheaply building materials, proand 1818, it levied a tax of one dollar upon visions, and the raw material, we anticipate each passenger who passed between Albany for Augusta, at no distant day, an elevated and N. York by steamboat, to aid in construc- position amongst the manufacturing towns in this country-but more especially in the region south of Mason & Dixon's line-and we predict that it will ultimately become largely be, that business and travellers may be at interested in the manufacture of cotton and other articles. We have only to say to those venient channel, unrestricted by rival works, engaged in this, for Georgia, important work, develope your power with your own means and advantages; but by all means, avail yourselves of the opportunity which it offers to participate in the benefits arising from working up, as well as in producing, and dealing in, the raw material. We heartily wish those interested early and ample success, towards which we shall be always happy, if in our

[For the American Railroad Journal.]

A Novelty.-We observed a few days since below Manayunk tunnel, on the Philadelphia and Reading railroad, an iron bridge constructed is, at the lowest water 500 feet wide, and averages 2 feet deep, so that we may safely calculate on an unfailing supply.

The span of the bridge is 34 Our river is navigable above the falls about ing a centre truss. The weight of the main truss 100 miles, and the extension of our railroad to the state road will give us the control of an im-mense trade with the interior. By these means of this bridge is about \$1600, and it is the first

. The above is from the Anthracite (Pottsville, Pa.) Gazette. The writer is mistaken in supposing that the bridge referred to is the "first iron bridge that has ever been put up in this country." The Erie canal, at Utica and Rome, is now spanned by two or three iron bridges, built some four or five years since, by Mr. S. Whip-Tonawanda railroad company. ple, civil engineer, of Utica. They are con-structed like the Reading railroad bridge, of cast and wrought iron combined, and of a form to We were not aware of the contemplated give, as the writer of this believes, much greater is one to connect Bristol with South Wales, by improvement above referred to, and are strength, according to the quantity of iron used,

We shall be much obliged to "J." or to Mr. Whipple, the builder, for a particular description, accompanied by drawings, of the bridges referred to at Utica and Rome. If we receive them, we will make them and the builder also better known, at least to the railroad community.

INTERNAL IMPROVEMENT .- Portsmouth, Exeter and Manchester Railroad .- A petition will be presented to the General Court of New Hampshire, at the June session, for an act to incorporate a company, with power to construct a "railroad from Portsmouth to either or both the above named places, and to form a junction with, or to cross the Boston and Maine railroad, at any point in the towns of Durham, Newmarket or Exeter, as shall seem to the petitioners most likely to promote the prosperity of Porstmouth, of the towns above mentioned, and of the State at laage.'

The petition is now receiving signatures in this town, and other towns on the route will also petition. Such a road would bring Concord and Manchester twenty-two miles nearer the seaboard at Portsmouth than at Boston. As the good effects of such a road on the business and prosperity of this section, enterprize, then invite capitalists, experienced have been ably and fully set forth in a in manufacturing, to join you in its use and pamphlet by "A Citizen," we will not go into any detail of the matter here. The road is of more consequence to this town than any that has been constructed in our neighborhood. - Portsmouth Journal.

The above is a very noticeable project. It is the first thing of importance that has appeared for a long time, in the shape of an actual developement of New Hampshire within herself. The map shows at once, the topographical propriety of the undertaking. Business relations may at present, and for a long time to come, direct the transportation of goods from the valley of the Merrimack to Boston, and so, in return. But the

DIVIDENDS.

The directors of the Boston and Worcester rail-road have declared a dividend of 4 per cent. on the capital stock of the corporation from the profits of of this bridge is about \$1600, and it is the first iron bridge that has ever been put up in this country.

The cost capital stock of the corporation from the promis of the six months ending on the 31st of May last, payable on the 1st of July. The receipts of income during the 6 months, with a reserve of \$13,162 from the previous dividend, amounted to \$236,203, and the expenses to \$107,982, leaving a net income of \$127,221.

The Boston and Providence railroad company have declared a dividend of three and a half dollars per share, payable 1st of July at the Phœnix bank, New York.

six months.

PROPOSED TUNNEL THROUGH LONDON .tunnels would lead off to the various suburbs north of the Thames, Regent's-park, High- gether with a little lime or other flux for the gate. Hampstead, Tottenham, &c. ; in these journey from one end of London to the crucible furnace; a battery of zinc and copother might be accomplished in half an per is prepared with five pair of plates, exci-hour or forty minutes, while the streets above would be considerably cleared, and zinc of this battery is attached an iron rod, much of the present confusion prevented. Such a proposal may at first to many persons appear absurd, but the plan is undoubtedly practicable, and though enormously expensive, the nature of the soil (London clay)

Institution of Civil Engineers, May 20th, 1845-Sir John Rennie, (President,) in the chair.-Mr. P. Barlow presented, as an appendix to his paper on the atmospheric system, the results of a series of experiments upon the force employed in drawing carriages up an inclined plane of 1 in 43 by a stationary engine and rope traction upon the tionary engine of 25-horse power, with a rope, would produce an useful mechanical effect, equal to the engine of 100-horse pow. er on the Dalkey Atmospheric Railwaythus proving by direct facts the deduction of Mr. Stephenson as to the amount of lost power by the latter system. These statements were ordered to be printed with Mr. Barlow's paper.

APPLICATION OF ELECTRICITY IN THE MANUFACTURE OF METALS.—At the Society of Arts, on 14th May, Mr. Whishaw (secretary) read a paper by Mr. Napier, "On

electricity for the purpose of manufacturing PATENT HAMMERED RAILROAD, SHIP metals from their ores since the year 1830 Pand Boat Spikes. The Albany Iron and Nati It is said Mr. Stephenson has suggested the metals from their ores since the year 1839, construction of a tunnel from Hyde-park-the paper describes the author's method of corner to Mile-end, for the purpose of easing operating, for which purpose he uses a blackthe great leading thoroughfares of their pres-ent throng of passengers. From this trunk line communication would be had with the which is allowed to dry, and a second and streets above by means of spiral staircases, third coat superadded; the ore to be opera-under cover, at regular distances, and branch ted on (which, if a sulphate, should be previously roasted) is put into the crucible, topurpose of giving it fluidity. The crucible, tunnels railway omnibuses would run, and a with its contents, is then placed in a common the end of which is inserted in the furnace, and caused to touch the outside of the crucible; another rod, either of iron or copper, is used, having at one extremity a disc of iron or coke, which is made to rest on the is favourable, and the great traffic which surface of the fused mass in the crucible—would arise would probably pay a moderate thus, the electricity passes down through the whole fluid mass in the crucible, and in the course of an hour the metal is separated from the ore, and deposited at the bottom. -Mining Journal.

ZINC THREAD. - The Moniteur Industriel announces that an important discovery in the manufacture of zinc thread has been effected by M. Boucher, who, after many essays, has at length been able to produce zinc Canterbury and Whitstable Railway. From threads of any diameter, of great suppleness, these experiments it appeared that the stalent metal thread. In all cases where a great tension is not required, this thread can be substituted with advantage for that of iron, brass, or copper. Its applications at present are very important, and increase daily. It is used for culinary purposes; there are metallic threads, threads for plants, clasps, points for soft wood, cords for bleaching yards, &c. The price of zinc has doubled during the last few years, but, notwithstanding, M. Boucher vends his thread at a lower price than the galvanic iron thread, and considerably less than brass thread. There can be no Separating Metals from their Ores by Means loubt that this is an important invention, of Electricity." After giving an account and we are satisfied that a large demand will of the progress made in the application of shortly test its merits.

Works have always on hand, of their own manufacworks have always on hand, of their own manufac-ture, a large assortment of Railroad, Ship and Boat Spikes, from 2 to 12 inches in length, and of any form of head. From the excellence of the material al-ways used in their manufacture, and their very gen-eral use for railroads and other purposes in this coun-try, the manufacturers have no hesitation in warranttry, the manufacturers have no nestation in warranting them fully equal to the best spikes in market, both as to quality and appearance. All orders addressed to the subscriber at the works, will be promptly executed. JOHN F. WINSLOW, Agent.

Albany Iron and Nail Works, Troy, N. Y.

For

For 9 Som

The above spikes may be had at factory prices, of Erastus Corning & Co., Albany; Hart & Merrit, New York; J. H. Whitney, do.; E. J. Etting, Philadelphia; Wm. E. Coffin & Co., Boston.

O RAILROAD COMPANIES AND MAN. ufacturers of railroad Machinery. The subscribers have for sale Am. and English bar iron, of all sizes; English blister, cast, shear and spring steel; Juniata rods; car axles, made of double refined iron; sheet and boiler iron, cut to pattern; tiers for loco-motive engines, and other railroad carriage wheels, made from common and double refined B. O. iron; the latter a very superior article. The tires are made by Messrs, Baldwin & Whitney, locomotive engine manufacturers of this city. Orders addressed to them, or to us, will be promptly executed.

When the exact diameter of the wheel is stated in

the order, a fit to those wheels is guaranteed, saving to the purchaser the expense of turning them out inside.

THOMAS & EDMUND GEORGE, N. E. cor. 12th and Market sts., Philad., Pa

DATENT RAILROAD, SHIP AND BOAT Spikes. The Troy Iron and Nail Factory keeps constantly for sale a very extensive assortment of Wrought Spikes and Nails, from 3 to 10 inches, manufactured by the subscriber's Patent Machinery, which after five years' successful operation, and now almost universal use in the United States (as well as England, where the subscriber obtained a patent)

are found superior to any ever offered in market.

Railroad companies may be supplied with Spikes having countersink heads suitable to holes in iron rails, to any amount and on short notice. Almost all the railroads now in progress in the United States are fastened with Spikes made at the above named factory—for which purpose they are found invalua-ble, as their adhesion is more than double any com-

mon spikes made by the hammer.

All orders directed to the Agent, Troy, N. York, will be punctually attended to.

HENRY BURDEN, Agent.

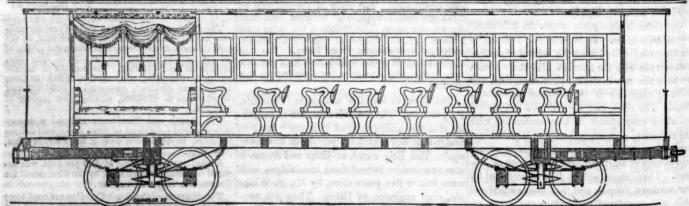
HENRY BURDEN, Agent.

Spikes are kept for sale, at Factory Prices, by I.

& J. Townsend, Albany, and the principal Iron merchants in Albany and Troy; J. I. Brower, 222 Water
St., New York; A. M. Jones, Philadelphia; T. Janviers, Baltimore; Degrand & Smith, Boston.

*** Railroad Companies would do well to forward their orders as early as practicable, as the subscriber

their orders as early as practicable, as the subscriber is desirous of extending the manufeturing so as to keep pace with the daily increasing demand. ja45



DAVENPORT & BRIDGES CONTINUE TO MANUFACTURE TO ORDER, AT THEIR WORKS, IN CAMBRIDGEPORT, MASS. Passenger and Freight Cars of every description, and of the most improved pattern. They iso furnish Snow Ploughs and Chilled Wheels of any pattern and size. Forged Axles, Springs, Boxes and Bolts for Cars at the lowest prices. All order punctually executed and forwarded to any part of the country Our Works are within fifteen minutes ride from State street, Boston—coaches pass every fifteen minutes.

NEW JERSEY RAILROAD AND TRANSPORTATION COMPANY. Capital, \$2,000,000.
ROBERT SCHUYLER, Esq., Vice President.
J. WORTHINGTON, Esq., Treasurer. Length of Road, 33 96-100 miles.

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Leave New York, foot of		DAILY.		SUN	DAY.
Courtland street,	A. M.	Second Second	P. M.	A. M.	P. M.
For Newark	9, 11, 12 9, 11	2,	3, 43-4, 6	-2 9	43-4
" Rahway	9, 11	3,			
Leave New Brunswick			34		81-2
Rahway Elizabethtown	6 3-4, 7, 8 1-4, 7, 7 1-2, 8 1-2,	10 1-2, 12 3	1-2, 5		
Newark	71-2, 81-4, 9,	н 1	1-2, 4, 51-2, 7, 93	1134	9.3-4

Somerville train, and for Philadelphia.

TABLE OF DISTANCES AND FARES.

y x2 1 (21) ((c))	New	York.	Nev	vark.	Elizabet	thtown.	Rah	way.	N. Bru	nswick
parties of the said	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.	Miles.	Cents.
New York			91-4	25	14 1-2	31 1-4	19 3-4	31 1-4	31 1-2	50
Newark	9 1-4	25			51-2	12 1-2	10 1-2	25	22 1-2	50
Elizabethtown	14 1-2	31 1-4	5 1-2	12 1-2			5	12 1-2	1634	50
Rahway	19 3-4	31 1-4	10 1-2	25	5	12 1-2			11 3-4	37 1-2
New Brunswick				50	1634	50	11 3-4	37 1-2	11 3-4	

FRENCH AND BAIRD'S PATENT SPARK ARRESTER.

TO THOSE INTERESTED IN A Railroads, Railroad Director and Managers are respectfully invited to examine an improved SPARK ARRESTER, recently patented by the undersigned.

Our improved Spark Arresters have been extensively used during the last year on both passenger and freight engines, and have been brought to such a state of perfection that no an-noyance from sparks or dust from the chimney of engines on which they are

used is experienced.

These Arresters are constructed on These Arresters are constructed on an entirely different principle from any neretotore offered to the public. The form is such that a rotary motion is imparted to the heated air, smoke and sparks passing through the chimney, and by the centrifugal force thus acquired by the sparks and dust they are separated from the smoke and steam, and thrown into an outer chamber of the chimney through openings near its top, from whence they fall by their own gravity to the bottom of this chamber; the smoke and steam passing off at the top of the chimney, through a capacious and unobstructed

passing off at the top of the chimney, through a capacious and steam passing off at the top of the chimney, through a capacious and unobstructed passage, thus arresting the sparks without impairing the power of the engine by diminishing the draught or activity of the fire in the furnace.

These chimneys and arresters are simple, durable and neat in appearance. They are now in use on the following roads, to the managers and other officers of which we are at liberty to refer those who

on the following roads, to the managers and other officers of which we are at liberty to refer those who may desire to purchase or obtain further information in regard to their merits:

E. A. Stevens, President Camden and Amboy Railroad Company; Richard Peters, Superintendant Georgia Railroad, Augusta, Ga.; G. A. Nicolls, Superintendant Philadelphia, Reading and Pottsville Railroad, Reading, Pa.; W. E. Morris, President Philadelphia, Germantown and Norristown Railroad Company, Philadelphia; E. B. Dudley, President W. and R. Railroad Company, Wilmington, N. C.; Col. James Gadsden, President S. C. and C. Railroad Company, Charleston, S. C.; W. C. Walker, Agent Vicksburgh and Jackson Railroad, Vicksburgh, Miss.; R. S. Van Renselaer, Engineer and Sup't Hartford and New Haven Railroad; W. R. M'Kee, Sup't Lexington and Ohio Railroad, Lexington, Ky.; T. L. Smith, Sup't New Jersey Railroad Trans. Co.; J. Elliott, Sup't Motive Power Philadelphia and Wilmington Railroad, Wilmington, Del.; J. O. Sterns, Sup't Elizabethown and Somerville Railroad; R. R. Cuyler, President Central Railroad Company, Savannah, Ga.; J. D. Gray, Sup't Macon Railroad, Macon, Ga.; J. H. Cleveland, Sup't Southern Railroad, Mouroe, Mich.; M. F. Chittenden, Sup't M. P. Central Railroad, Detroit, Mich.; G. B. Fisk, President Long Island Railroad, Brooklyn.

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Orders for these Chimneys and Arresters, addressed to the subscribers, or to Messrs. Baldwin & Whit-Orders for these Unimneys and Allesses, will be promptly executed.

N. B.—The subscribers will dispose of single rights, or rights for one or more States, on reasonal Philadelphia, Pa., April 6, 1844.

. The letters in the figures refer to the article given in the Journal of June, 1844.

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Sites Towns, Farms, Wild Land, etc., surveyed.
Plans and Estimates for Buildings, Bridges, etc., prepared, and all appertaining business executed.

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Wm. Parker, Esq., Engineer and Superintendent ja45 j5a3 Albany Iron and Nail Works, Troy, N. Y.

FOR SALE, AT A SACRIFICE—A LOCOmotive Engine, 4 wheels and Tender. Cylinders 10 in. dia., Stroke 16 in., Cylinders inside of
smoke box. Weight of engine, with wood and water, about 9 tons. This engine and tender are new,
and of the best materials and workmanship. If required, would be altered to a 6 wheeled engine.

Also, 1 20-horse High Pressure Steam Engine.
2 8-horse ""

2 S-horse
1 Upright Hydraulic Press,
All of which will be sold low, on application to
T. W. & R. C. SMITH.
Founders and Machinists,

Alexandria, D. C. May 12tf

RAILROAD IRON AND FIXTURES. THE Subscribers are ready to execute orders for the above, or to contract therefor, at a fixed price, deliabove, or to contract the Carlos above, or the Carlos above, or to contract the Carlos above, or to

MACHINE WORKS OF ROGERS, KETCH-M ACHINE WORKS OF ROTERS, RETURNING UM & Grosvenor, Patterson, N. J. The undersigned receive orders for the following articles, manufactured by them of the most superior description in every particular. Their works beingextensive and the number of hands employed beinglarge, they are enabled to execute both large and small order with recomptages and described. ders with promptness and despatch, Railroad Work.

Railroad Work.

Locomotive steam engines and tenders; Driving and other locomotive wheels, axles, springs & flange tires; car wheels of cast iron, from a variety of patterns, and chills; car wheels of cast iron with wrought tires; axles of best American refined iron; springs; boxes and bolts for cars.

Cotton, Wool and Flax Machinery of all descriptions and of the most improved patterns, style and workmanship.

of all descriptions and of the most improved patterns, style and workmanship.

Mill gearing and Millwright work generally; hydraulic and other presses; press screws; callen-ders; lathes and tools of all kinds; iron and brass

ings of all descriptions.

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Paterson, N. J., or 60 Wall street, N. York.

NICOLL'S PATENT SAFETY SWITCH for Railroad Turnouts. This invention, for some time in successful operation on one of the principal railroads in the country, effectually prevents engines and their trains from running off the track

at a switch, left wrong by accident or design.

It acts independently of the main track rails, being laid down, or removed, without cutting or displacing

them.

It is never touched by passing trains, except when in use, preventing their running off the track. It is simple in its construction and operation, requiring only two Castings and two Rails; the latter, even if much worn or used, not objectionable.

Working Models of the Safety Switch may be seen at Messrs, Davenport and Bridges, Cambridgeport, Mass., and at the office of the Railroad Journal, New York.

New York.

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G. A. NICOLLS,

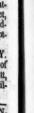
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Reading, Pa.

CEORGE VAIL & CO., SPEEDWELL IRON

Works, Morristown, Morris Co., N. J.—Manufacturers of Railroad Machinery; Wrought Iron
Tires, made from the best iron, either hammered or
rolled, from 14 in. to 24 in thick.—bored and turned
outside if required, Railroad Companies wishing
to order, will please give the exact inside diameter,
or circumference, to which they wish the Tires
made, and they may rely upon being served according to order, and also punctually, as a large quantity
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Crank Axles, made from the best refined iron;
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Paper Mill Machinery; Mill Gearing and Mill
Wright work of all kinds; Steam Saw Mills of simple and economical construction, and very effective
Iron and Brass Castings of all descriptions.
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	" New Haven	"	Tues., Thur. & Sat., Daily,	9	24		
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ooklyn	Hicksville & intermediate places	2018	"	91		26	
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Wewark	New York	[9 A. M. and 3 P. M., con-		74, 84, 9, 11,	11, 4, 51, 7, 91,	91	1
	".	nect with Morris Railroad.]	Sundays,	9, 11‡,	41,	91	
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lew York	Rahway	N. J. railroad and trans. co.,	"	9, 11,	3, 41, 6,	194	
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